U.S. DEPARTMENT OF COMMERCE
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PB-289 319

Water Resources Data for Maine, Water Year 1973

(U.S.) Geological Survey, Boston, MA Water Resources Div

1974

PB 289319

1973

Water Resources Data for Maine

Water Year 1973

Part 1. Surface Water Records

Part 2. Water Quality Records

Part 3. Ground Water Records

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-73-1

Prepared in cooperation with the Maine Public Utilities
Commission and with other agencies

BIBLIOGRAPHIC DATA SHEET

1. Report No. USGS/WRD/HD-78/185

2.

3. Recipient's Accession No. PB289319

4. Title and Subtitle
Water Resources Data for Maine, Water Year 1973
Part 1. Surface Water Records
Part 2. Water Quality Records
Part 3. Ground Water Records

5. Report Date 1974

6.

7. Author(s)

8. Performing Organization Rept. No. USGS-WDR-ME-73-1

9. Performing Organization Name and Address
U.S. Geological Survey, Water Resources Division
150 Causeway Street, Suite 1001
Boston, MA 02114

10. Project/Task/Work Unit No.

11. Contract/Grant No.

12. Sponsoring Organization Name and Address
U.S. Geological Survey, Water Resources Division
150 Causeway Street, Suite 1001
Boston, MA 02114

13. Type of Report & Period Covered
Annual - Oct. 1, 1972 to Sept. 30, 1973

14.

15. Supplementary Notes
Prepared in cooperation with the Maine Public Utilities Commission and with other agencies.

16. Abstracts

Water resources data for the 1973 water year for Maine consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report contains discharge records for 60 gaging stations; stage and contents for 1 lake; water quality for 13 gaging stations, and water levels for 12 observation wells. Also included are 23 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Maine.

17. Key Words and Document Analysis. 17a. Descriptors

*Maine, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

18. Availability Statement
No restriction on distribution.
This report may be purchased from:
National Technical Information Service
Springfield, VA 22161

19. Security Class (This Report) UNCLASSIFIED

20. Security Class (This Page) UNCLASSIFIED

21. No. of Pages 123

22. Price PCA06/MF-A01

FORM NTIS-35 (REV. 10-73) ENDORSED BY ANSI AND UNESCO. THIS FORM MAY BE REPRODUCED USCOMM-DC 8265-P74

1973

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UNITED STATES
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Prepared in cooperation with the Maine Public Utilities
Commission and with other agencies

Prepared in cooperation with

Maine Public Utilities Commission
Maine Department of Transportation
U.S. Department of State
U.S. Environmental Protection Agency

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
State House Annex
Capitol Shopping Center
Augusta, Maine 04330

1974

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WATER RESOURCES DATA FOR MAINE, 1973

Part 1. Surface-Water Records
Part 2. Water-Quality Records
Part 3. Ground-Water Records

INTRODUCTION

Water resources data for the 1973 water year for Maine including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, records of water-quality data on the chemical and physical characteristics of surface- and ground-water, and records of ground-water levels in index wells are given in this report. Records for a few pertinent gaging stations in bordering States and Provinces are also included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of G. S. Hayes, District Chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maine.

Through September 30, 1960, the records of discharge and stage of streams and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States."

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The streamflow records for 1961-65 also are published in a Geological Survey water-supply paper series entitled, "Surface Water Supply of the United States 1961-65," and those for 1966-70 will be published in a similar series.

The Geological Survey has published records of chemical quality, temperature, and suspended sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have also been released on a State-boundary basis in conjunction with streamflow records or in a separate volume.

Through December 31, 1965, the Geological Survey has published ground-water records which contain water level data in an annual series of water-supply papers entitled"Water Levels and Artesian Pressures in Observation Wells in the United States." Since 1955 this series has been entitled "Ground-Water Levels in the United States." The calendar years 1956 through 1960 span a transition period wherein the water-supply papers are converted from presenting 1 year data to 5 years of data. Water-Supply Paper 1537 contains records of water levels in Maine for calendar years 1956-57, Water-Supply Paper 1782 for calendar years 1958-62, and Water-Supply Paper 1977 for calendar years 1963-67. Subsequent water-supply papers containing records for Maine will be issued for 5-year intervals. Beginning with the 1968 water year, ground-water data for Maine have also been released on a State-boundary basis in conjunction with streamflow and water-quality records.

COOPERATION

The U.S. Geological Survey and organizations of the State of Maine have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality and ground-water records since 1957. Organizations that supplied data are acknowledged in station descriptions or in footnotes to tables. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Maine Public Utilities Commission, J. G. Feehan, chairman
Maine Department of Transportation, D. H. Stevens, commissioner

Assistance in the form of funds or services was given by the U.S. Department of State in collecting records published herein for 5 gaging stations and 2 water-quality stations; and U.S. Environmental Protection Agency, for 4 water-quality stations.

The following organizations aided in collecting records:

Bangor Hydro-Electric Company
Kennebec Water Power Company
Georgia-Pacific Corporation
Union Water Power Company

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States) and records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated herein as "International gaging stations."

DEFINITION OF TERMS

The terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English Units to International System (SI) Units on page 19.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot (0.02832 cubic meters) per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons (2450 cubic meters), and represents a runoff of 0.0372 inch (0.945 millimeters) from 1 square mile (2.59 square kilometers).

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot (0.02832 cubic meters) passing a given point during 1 second and is equivalent to 7.48 gallons per second (0.02832 cubic meters per second) or 448.8 gallons per minute (1.69 cubic meters per minute).

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

> Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.
>
> Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Land surface datum (lsd) is a precise datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is a permanent point from which the distance to the water surface in a well is measured to obtain the water level.

Micrograms per liter (ug/l, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per liter is equivalent to one milligram per liter. See below.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in mg/l and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations are determined in the laboratory as parts per million (ppm) and are converted to mg/l by using the factors in table 2, page 5.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25 °C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2})*......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1})*....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*......	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in parts per million to milligrams per liter*
(All values calculated to three significant figures)

Range of concentration (ppm)	Multiply by	Range of concentration (ppm)	Multiply by
0 - 15,900	1.00	322,000 - 341,000	1.26
16,000 - 46,800	1.02	342,000 - 361,000	1.28
46,900 - 76,500	1.04	362,000 - 380,000	1.30
76,600 - 105,000	1.06	381,000 - 399,000	1.32
106,000 - 133,000	1.08	400,000 - 416,000	1.34
134,000 - 159,000	1.10	417,000 - 434,000	1.36
160,000 - 185,000	1.12	435,000 - 451,000	1.38
186,000 - 210,000	1.14	452,000 - 467,000	1.40
211,000 - 233,000	1.16	468,000 - 483,000	1.42
234,000 - 256,000	1.18	484,000 - 498,000	1.44
257,000 - 279,000	1.20	499,000 - 514,000	1.46
280,000 - 300,000	1.22	515,000 - 528,000	1.48
301,000 - 321,000	1.24	529,000 - 542,000	1.50

*Based on water density of 1.000 g/ml and sediment density of 2.65 g/cc.

WRD is used as an abbreviation for "Water Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimes will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Pesticides program is a network of regularly sampled water-quality stations where additional samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flows) or more frequently to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging station or partial-record station. Gaps are left in the numbers to allow for new stations that may be established;

hence the numbers are not consecutive. The complete 8-digit number for each station, such as 03335500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "335500". In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

WELL NUMBERS

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The first six digits denote the degrees, minutes, and seconds of latitude followed by a letter denoting north or south. Seven digits following the letter denote degrees, minutes, and seconds of longitude. The last two digits are a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well.

A local well numbering system is also used in this report. All wells which have been inventoried are numbered consecutively within each county.

PART 1. SURFACE WATER RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct reading of a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the gage height to the rating table gives the discharge. The daily mean discharge is computed from gage heights, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. Information required for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage, at these stations the rate of change in stage is used as a factor in determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents are computed. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations or streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of contents is given. Tables of daily gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1973 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations is that determined and used by the Corps of Engineers and other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the streamflow records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily reading of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs the elevation is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures; it is the total cubic feet per second per day for the month. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the basin is usually less than 20 inches (508 millimeters).

For reservoir stations the monthly summary gives the contents at the end of the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month and the change in contents during the month.

In the yearly summary below the monthly summary, the figures of maximum are the maximum daily discharges for the calendar and water years; likewise, the minimum in this summary are the minimum daily discharges.

For the reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE," certain periods are indicated for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to reservoir tables explain the use of new capacity tables or for other special conditions.

Accuracy of Data

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good", within 10 percent; and "fair", within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot (0.02832 cubic meters) per second for discharges less than 1 cfs; to tenths between 1.0 and 10 cfs (0.02832 and 0.2832 cms); to whole numbers between 10 and 1,000 cfs (0.2832 and 28.3 cms); and to 3 significant figures above 1,000 cfs (28.3 cms). The number of significant figures used is based solely on the magnitude of the figures. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation or other factors. For these stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects.

Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Maine for the period October 1960 to September 1965 are in Water-Supply Paper 1901 and for the period October 1965 to September 1970 in Water-Supply Paper 2101 (now in press).

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Maine are compiled in Water-Supply Papers 1301 through September 1950, and in 1721 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in two tables at the end of the surface-water records in this report. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at miscellaneous sites.

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

PART 2. WATER QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage areas, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Data on the quality of surface water were collected from designated sampling sites (map on page 18) at predetermined intervals such as once daily, weekly, monthly or less frequently. Data on the quality of ground water were collected once during the year at 3 index wells whose locations are shown in Figure 2 and 12 other wells in the eastern section of the State.

Water-quality information is presented for chemical quality, microbiological, fluvial sediment and water temperatures. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperature are given in degrees Celsius (centigrade, °C). In waters with density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Fahrenheit to degrees Celsius, see table on page 14.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 4).

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homegeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

Table 3.--Degrees Fahrenheit (°F) to degrees Celsius (°C)*
(Temperature reported to nearest 0.5°C)

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
32	0.0	50	10.0	68	20.0	86	30.0	104	40.0
33	.5	51	10.5	69	20.5	87	30.5	105	40.5
34	1.0	52	11.0	70	21.0	88	31.0	106	41.0
35	1.5	53	11.5	71	21.5	89	31.5	107	41.5
36	2.0	54	12.0	72	22.0	90	32.0	108	42.0
37	3.0	55	13.0	73	23.0	91	33.0	109	43.0
38	3.5	56	13.5	74	23.5	92	33.5	110	43.5
39	4.0	57	14.0	75	24.0	93	34.0	111	44.0
40	4.5	58	14.5	76	24.5	94	34.5	112	44.5
41	5.0	59	15.0	77	25.0	95	35.0	113	45.0
42	5.5	60	15.5	78	25.5	96	35.5	114	45.5
43	6.0	61	16.0	79	26.0	97	36.0	115	46.0
44	6.5	62	16.5	80	26.5	98	36.5	116	46.5
45	7.0	63	17.0	81	27.0	99	37.0	117	47.0
46	8.0	64	18.0	82	28.0	100	38.0	118	48.0
47	8.5	65	18.5	83	28.5	101	38.5	119	48.5
48	9.0	66	19.0	84	29.0	102	39.0	120	49.0
49	9.5	67	19.5	85	29.5	103	39.5	121	49.5

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Ground-water quality does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Maine are listed below.

Water year	WSP No.	Water year	WSP No.
1953	1290	1963	1947
1954	1350	1964	1954
1955	1400	1965	1961
1957	1520	1966	1991
1958	1571	1967	2011
1959	1641	1968	2091
1960	1741	1969	2141
1961	1881	1970	2151
1962	1941	1971	2161

PART 3. GROUND-WATER RECORDS

Collection and Reporting of Data

Water level measurements are reported in feet below land surface datum and to as many significant figures as can be justified by local conditions. Measurements of water level in wells equipped with recording gages are given for every fifth day and the end of each month. Locations of the index wells are shown on map on page 18 .

HYDROLOGIC CONDITIONS

Runoff for water year 1973 was excessive (in the upper quartile of recorded annual runoff) over the entire State, ranging from 139 to 169 percent of normal at the three index gaging stations and was a new maximum at the station on the Little Androscoggin River near South Paris. Mean monthly runoff was excessive at nearly all stations during the January through April period and at most stations in the central and southern areas again during July and August. Record-breaking floods occurred in the St. John River and St. Croix River basins during the last days of April and the first days of May, but damage was minor. The annual runoff for water year 1973 was about 25% higher than in water year 1972 in the northern section and nearly 70% higher in the southern area.

Average water content of the snowpack on March 1 ranged from 5 to 10 inches (127 to 254 millimeters) in the various river basins of the State. It was above normal for the date in all areas and ranged from 114% in the Saco River basin to 171% in the St. Croix River basin.

Ground-water levels had the usual seasonal fluctuations and reached maximum level in late April or early May and minimum level in September. Levels were generally above average for the entire year.

Water in usable storage, which was 125% of average at the start of the year, decreased seasonally but at a slower than usual rate and was 161% of average at the end of February. After the spring runoff the quantity in storage on May 31 was 111% of normal and, while again decreasing seasonally, was 137% of average at the end of the water year.

Figure 1, page 17, for which records at three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1973 water year with median discharges for the 1931-60 period.

SELECTED REFERENCES

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Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

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Hem, J. D., 1959, Study and interpretation of the chemical characteristics of natural water: U.S. Geol. Survey Water-Supply Paper 1473, 269 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

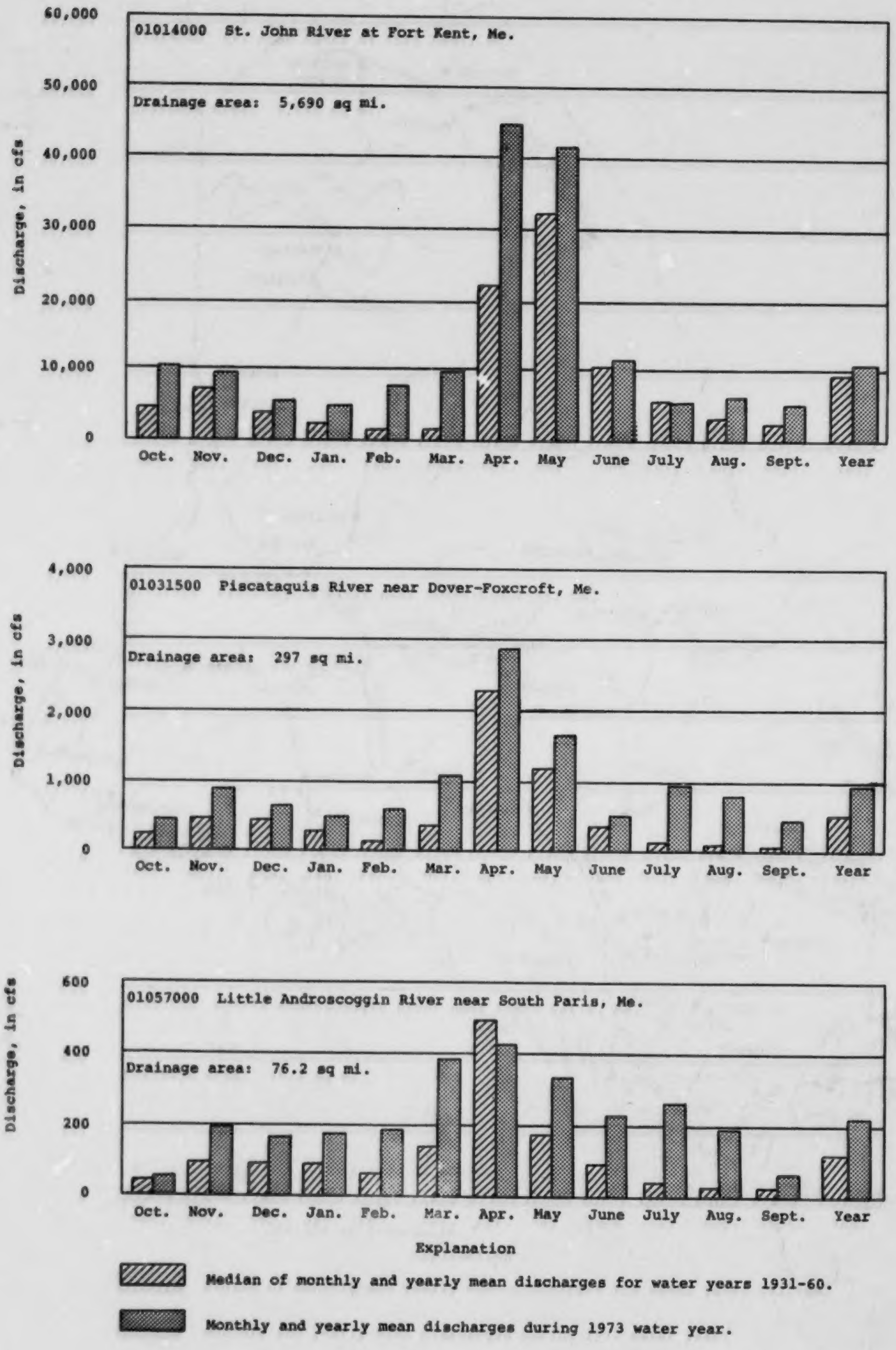

Figure 1.--Comparison of runoff at three long-term index gaging stations during 1973 water year with median runoff for period 1931-60.

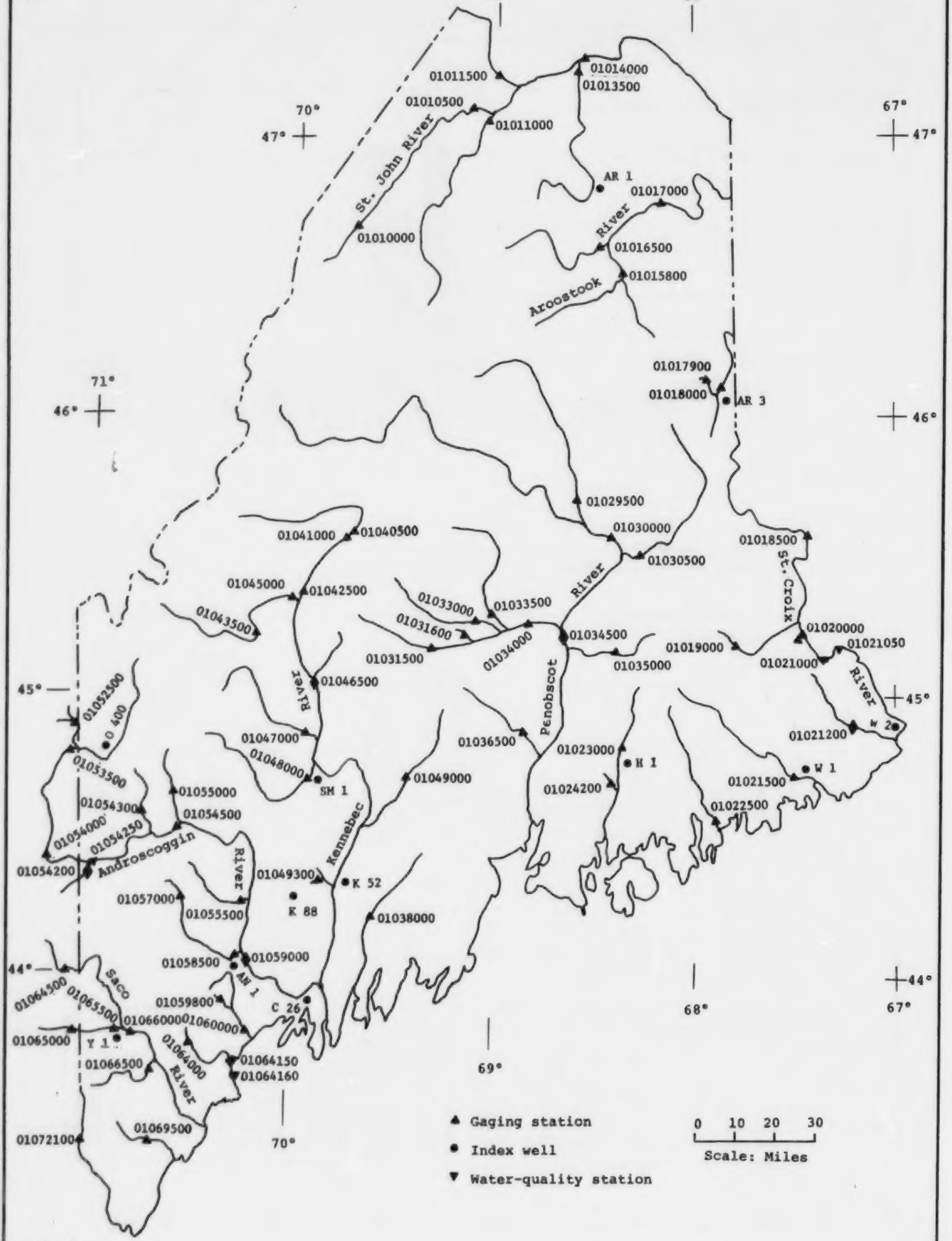
69°
68°
70°
67°
47°
46°
45°
44°
43°
71°
St. John River
Aroostook
River
Penobscot
River
St. Croix
River
Kennebec
River
Androscoggin
River
Saco
River
01011500
01014000
01013500
01010500
01011000
01010000
AR 1
01017000
01016500
01015800
01017900
01018000
AR 3
01029500
01030000
01030500
01018500
01041000
01040500
01045000
01042500
01043500
01033000
01033500
01031600
01034000
01034500
01031500
01035000
01019000
01020000
01021050
01021000
01046500
01052500
O 400
01047000
01048000
SM 1
01036500
01023000
H 1
01024200
01021200
W 2
W 1
01021500
01022500
01049000
01053500
01055000
01054300
01054500
01054000
01054250
01054200
01049300
K 52
K 88
01057000
01055500
01038000
01058500
AN 1
01059000
01064500
01063500
01066000
01060000
01059800
C 26
01065000
Y 1
01066500
01064000
01064150
01064160
01072100
01069500
▲ Gaging station
● Index well
▼ Water-quality station
0 10 20 30
Scale: Miles

Figure 2.--Location of stations

Revised October 11, 1973

Table 4.--FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM (SI) UNITS

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimeters (mm)
	.0254	meters (m)
feet (ft)	.3048	meters (m)
yards (yd)	.9144	meters (m)
rods	5.0292	meters (m)
miles (mi)	1.609	kilometers (km)
	Area	
acres	4047	square meters (m^2)
	.4047	*hectares (ha)
	.4047	square hectometer (hm^2)
	.004047	square kilometers (km^2)
square miles (mi^2)	2.590	square kilometers (km^2)
	Volume	
gallons (gal)	3.785	**liters (l)
	3.785	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons (10^6 gal)	3785	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	28.32	cubic decimeters (dm^3)
	.02832	cubic meters (m^3)
cfs-day (ft^3/s-day)	2447	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1233	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm^3/s)
	.02832	cubic meters per second (m^3/s)
gallons per minute (gpm)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimeters per second (dm^3/s)
	.04381	cubic meters per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

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*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

Page. 20,21,blank.

PART 1. SURFACE WATER RECORDS

ST. JOHN RIVER BASIN

01010000 St. John River at Ninemile Bridge, Maine

LOCATION.--Lat 46°42'00", long 69°42'59", Aroostook County, on right bank in T. 12, R. 15, 0.1 mi (0.2 km) downstream from Ninemile Brook, 0.4 mi (0.6 km) downstream from site of Ninemile Bridge, and 11 mi (18 km) northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,290 sq mi (3,340 sq km), approximately.

PERIOD OF RECORD.--October 1950 to current year. October 1950 monthly discharge only, published in WSP 1721.

GAGE.--Water-stage recorder. Datum of gage is 931.26 ft (283.848 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 2,226 cfs (63.04 cu m/s), 23.43 in/yr (595 mm/yr).

EXTREMES.--Current year: Maximum discharge, 30,600 cfs (867 cu m/s) Apr. 24 (gage height, 10.32 ft or 3.146 m); minimum, 125 cfs (3.54 cu m/s) Aug. 1 (gage height, 0.51 ft or 0.155 m).
Period of record: Maximum discharge, 34,200 cfs (968 cu m/s) Apr. 25, 1958 (gage height, 10.97 ft or 3.344 m), from rating curve extended above 16,000 cfs (453 cu m/s); minimum, 59 cfs (1.7 cu m/s) Sept. 5, 1953; minimum gage height, 0.25 ft (0.076 m) Sept. 5, 1953, Sept. 11-12, 1960.

REMARKS.--Records excellent except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.540	3,840	930	950	1.240	1,040	4,150	18.400	7,990	814	129	903
2	1.500	2.960	840	940	1.220	1.030	4,850	14.400	7,300	1.340	144	1,950
3	1.270	3,090	780	930	1.400	1,020	5.500	12.400	5,810	1,770	155	2.140
4	1,010	3.770	740	920	1.700	1,000	5.300	14,800	4.390	2,230	451	1,760
5	828	3,480	730	910	2.100	1,020	4,850	14,900	3.380	2,690	1.170	1,530
6	700	2,900	830	900	2,400	1,040	4,300	12.400	2.780	2.410	1,830	2.420
7	656	2.520	1,020	890	2,350	1.110	3,800	9,720	2,590	1,840	1.270	7.140
8	2,410	2.330	1,220	880	2,250	1,220	3,350	7,820	2,370	2.080	880	6,940
9	4.850	2,420	1.380	865	2,080	1,320	2,950	6,630	2.180	1.580	675	4,960
10	4,090	2,520	1.370	850	1,950	1,450	2,600	6.360	2,130	1.190	591	3,360
11	3.110	2,450	1,340	840	1,800	1,630	2,400	6,580	2.080	937	2,160	2.350
12	2.470	2.280	1.310	830	1,750	1,880	2,200	7,510	1,910	755	3.030	1,880
13	2.460	2,140	1.280	820	1.650	2.150	2,100	7,210	1,660	605	2,220	1.600
14	2,310	2,140	1.230	815	1,580	2.700	2,060	6,130	1.450	524	1.570	1.320
15	2.280	2.200	1.220	810	1,520	3,200	2,050	4,980	1.280	446	1.230	1,090
16	2,700	1,960	1.200	805	1.470	3,350	2,500	4,190	1.390	391	1.450	929
17	2.720	1.350	1.180	800	1.420	3,550	4.830	3,990	1.790	326	1,300	824
18	2.910	1.210	1.160	795	1,370	4,100	11.500	3.620	2.280	280	924	806
19	2.470	1.120	1.130	790	1.320	5.100	16.900	3,940	1.920	239	724	1.820
20	2,020	1.030	1.120	820	1.290	6,700	18.600	5,300	1.520	203	604	2,610
21	1.680	837	1.110	890	1.250	6,800	18,500	5.310	1.190	174	517	2.420
22	1.470	1,050	1.100	970	1.220	6.550	19,400	8,850	974	158	472	2.120
23	1.420	900	1,080	1.120	1.190	6.200	26.600	11,900	824	157	478	1.840
24	1.720	885	1,060	1.300	1,170	5,800	29,800	10.200	708	153	529	1,830
25	2,690	920	1.050	1.600	1.150	5,350	26,900	7.670	778	175	546	1,640
26	3.010	1.030	1,030	1,720	1.130	5.100	20.900	5.760	862	161	455	1,390
27	2,940	1.260	1.020	1.650	1.100	4,800	16.500	4.540	1.110	158	381	1.160
28	3.030	1,350	1,010	1.510	1.080	4.500	18.600	3,840	992	158	333	977
29	4.380	1.250	990	1.400	------	3,950	24,800	6,820	873	158	591	856
30	6.270	1.080	980	1.340	------	3.600	22,800	8,970	812	161	968	751
31	5.110	------	970	1.280	------	3.300	------	7.400	------	143	1,050	------
TOTAL	78,024	58.272	33.410	31.940	43.150	101,560	331,590	252.540	67.323	24.406	28,827	63.316
MEAN	2.517	1.942	1.078	1.030	1,541	3.276	11.050	8,146	2.244	787	930	2.111
MAX	6.270	3.840	1.380	1,720	2.400	6,800	29,800	18.400	7,990	2,690	3.030	7.140
MIN	656	837	730	790	1.080	1.000	2,050	3.620	708	143	129	751
CFSM	1.95	1.51	.84	.80	1.19	2.54	8.57	6.31	1.74	.61	.72	1.64
IN.	2.25	1.68	.96	.92	1.24	2.93	9.56	7.28	1.94	.70	.83	1.83

CAL YR 1972 TOTAL 1.008.045 MEAN 2.754 MAX 23,100 MIN 250 CFSM 2.13 IN 29.07
WTR YR 1973 TOTAL 1.114.358 MEAN 3.053 MAX 29,800 MIN 129 CFSM 2.37 IN 32.13

01010500 St. John River at Dickey, Maine

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, on right bank at downstream side of highway bridge at Dickey, 0.4 mi (0.6 km) downstream from Little Black River, and 2.8 mi (4.5 km) upstream from Allagash River.

DRAINAGE AREA.--2,700 sq mi (6,993 sq km), approximately.

PERIOD OF RECORD.--July to November 1910 and April to November 11 (published as "near Dickey"), September 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.66 ft (180.033 m) above mean sea level (levels by Corps of Engineers). Prior to December 1911, nonrecording gage at site 2,300 ft (701 m) downstream at different datum. September 1946 to April 1962, water-stage recorder at site 1,300 ft (396 m) downstream at same datum.

AVERAGE DISCHARGE.--27 years (1946-73), 4,569 cfs (129.4 cu m/s), 22.98 in/yr (584 mm/yr).

EXTREMES.--Current year: Maximum discharge, 72,000 cfs (2,039 cu m/s) Apr. 29 (gage height, 16.98 ft or 5.176 m); minimum, 402 cfs (11.4 cu m/s) July 27 (gage height, 3.82 ft or 1.164 m).

Period of record: Maximum discharge, 75,400 cfs (2,135 cu m/s) May 10, 1969 (gage height, 17.35 ft or 5.288 m); maximum gage height, 23.44 ft (7.145 m) Apr. 22, 1970 (backwater from ice); minimum discharge, 129 cfs (3.65 cu m/s) Sept. 17, 1948.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,270	9,480	1,950	1,880	2,600	2,100	5,400	47,600	14,400	1,280	479	1,390
2	4,360	7,200	1,700	1,870	2,600	2,080	6,500	34,600	14,600	1,390	551	1,390
3	3,720	6,400	1,500	1,850	2,850	2,030	8,500	27,300	12,500	1,830	1,920	2,140
4	3,020	6,820	1,380	1,820	3,400	1,990	10,300	30,300	9,920	2,670	3,950	2,610
5	2,540	6,890	1,350	1,800	4,250	1,970	10,130	34,200	7,760	3,750	10,800	2,120
6	2,180	6,190	1,420	1,780	4,950	1,920	9,000	28,600	6,300	4,450	9,720	1,980
7	1,940	5,290	1,750	1,770	4,850	1,910	8,000	22,300	5,320	3,780	7,450	4,540
8	3,750	4,810	2,150	1,750	4,550	2,100	7,000	18,500	5,020	3,520	5,260	9,440
9	10,600	4,600	2,550	1,720	4,200	2,500	5,800	15,900	4,540	3,750	3,570	8,040
10	10,500	4,780	2,800	1,710	3,900	2,950	5,100	15,000	4,100	3,750	2,760	5,770
11	7,880	4,780	2,750	1,700	3,600	3,600	4,600	15,600	3,880	2,930	2,430	4,160
12	6,050	4,540	2,650	1,680	3,480	4,200	4,350	17,600	3,620	2,260	4,200	3,120
13	5,080	4,250	2,600	1,670	3,330	4,750	4,100	18,600	3,320	1,770	4,690	2,560
14	4,540	4,050	2,520	1,650	3,180	5,350	3,900	15,700	2,880	1,440	3,540	2,220
15	4,480	4,000	2,450	1,630	3,050	6,100	3,800	12,900	2,580	1,240	2,630	1,870
16	4,540	3,400	2,400	1,620	2,980	6,650	4,000	10,800	2,300	1,040	2,180	1,620
17	5,140	2,900	2,330	1,610	2,880	6,900	6,000	9,880	2,280	922	2,350	1,430
18	6,120	2,550	2,300	1,610	2,820	7,450	16,500	9,120	2,670	836	2,350	1,290
19	6,120	2,350	2,260	1,630	2,760	8,400	27,000	8,680	3,120	735	1,830	1,380
20	4,930	2,150	2,220	1,680	2,650	9,300	34,000	10,200	2,670	705	1,680	2,510
21	3,940	2,070	2,190	1,780	2,610	10,500	35,800	10,700	2,180	646	1,380	3,650
22	3,500	1,960	2,160	1,950	2,500	9,800	38,000	13,900	1,810	570	1,310	3,500
23	3,140	1,900	2,110	2,150	2,460	8,800	51,500	21,600	1,530	533	1,850	3,120
24	3,170	1,880	2,100	2,480	2,380	7,900	66,800	20,500	1,340	470	1,940	2,700
25	3,780	1,980	2,070	3,250	2,300	7,000	61,200	16,000	1,180	444	1,600	2,610
26	4,900	2,150	2,050	3,600	2,250	6,500	48,200	12,600	1,110	419	1,430	2,370
27	5,050	2,400	2,020	3,450	2,200	6,000	37,000	10,200	1,180	444	1,180	2,020
28	5,380	2,700	2,000	3,200	2,150	5,500	38,600	8,640	1,360	685	1,030	1,740
29	7,770	2,600	1,990	3,000	------	5,300	65,400	12,500	1,430	766	896	1,530
30	13,600	2,250	1,960	2,800	------	5,100	65,100	18,600	1,320	655	801	1,360
31	12,500	------	1,930	2,680	------	5,100	------	16,200	------	542	1,180	------
TOTAL	167,490	119,320	65,610	64,770	87,730	161,750	691,550	564,820	128,220	50,222	88,937	86,180
MEAN	5,403	3,977	2,116	2,089	3,133	5,218	23,050	18,220	4,274	1,620	2,869	2,873
MAX	13,600	9,480	2,800	3,600	4,950	10,500	66,800	47,600	14,600	4,450	10,800	9,440
MIN	1,940	1,880	1,350	1,610	2,150	1,910	3,800	8,640	1,110	419	479	1,290
CFSM	2.00	1.47	.78	.77	1.16	1.93	8.54	6.75	1.58	.60	1.06	1.06
IN.	2.31	1.64	.90	.89	1.21	2.23	9.53	7.78	1.77	.69	1.23	1.19

CAL YR 1972 TOTAL 2,040,520 MEAN 5,575 MAX 46,700 MIN 520 CFSM 2.06 IN 28.11
WTR YR 1973 TOTAL 2,276,599 MEAN 6,237 MAX 66,800 MIN 419 CFSM 2.31 IN 31.37

PEAK DISCHARGE (BASE, 27,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-24	1300	16.56	68,200	4-29	1900	16.98	72,000

01011000 Allagash River near Allagash, Maine

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostook County, on left bank 3.0 mi (4.8 km) upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,250 sq mi (3,240 sq km), approximately, not including 249 sq mi (645 sq km) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--July 1910 to November 1910, May to November 1911, September 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft (184.28 m) above mean sea level. Prior to December 1911, nonrecording gage at site 3.0 mi (4.8 km) downstream at different datum.

AVERAGE DISCHARGE.--42 years (1931-73), 1,881 cfs (53.27 cu m/s), 20.44 in/yr (519 mm/yr).

EXTREMES.--Current year: Maximum discharge, 29,400 cfs (833 cu m/s) Apr. 29 (gage height, 12.33 ft or 3.758 m); minimum daily, 389 cfs (11.0 cu m/s) July 31, Aug. 1.

Period of record: Maximum discharge, 29,400 cfs (833 cu m/s) Apr. 29, 1973 (gage height, 12.33 ft or 3.758 m); maximum gage height, 14.16 ft (4.316 m) Apr. 23, 1960 (backwater from ice); minimum discharge, 87 cfs (2.46 cu m/s) Sept. 11, 1960.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake (usable capacity, about 3.4 billion cu ft or 96.3 million cu m), 58 mi (93 km) upstream. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1231: 1911.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,940	2,720	1,000	520	1,160	1,080	4,200	19,500	6,630	936	397	518
2	1,940	2,610	950	515	1,150	1,070	4,700	16,000	6,180	1,070	458	536
3	1,740	2,860	920	505	1,190	1,030	4,900	14,300	5,620	1,010	619	544
4	1,610	3,110	900	500	1,300	1,010	5,040	14,200	5,060	1,810	724	543
5	1,570	3,090	880	490	1,400	985	4,700	13,600	4,520	2,570	1,450	527
6	1,530	2,970	860	485	1,570	965	4,560	12,100	4,150	2,440	1,500	617
7	1,430	2,810	840	480	1,780	975	4,280	10,600	3,870	2,060	1,400	1,300
8	2,740	2,530	820	475	1,980	1,030	4,050	9,380	3,560	2,210	1,140	1,350
9	3,890	2,290	870	475	2,010	1,110	3,670	8,480	3,310	2,280	934	1,200
10	3,570	2,150	900	470	1,990	1,220	3,360	8,060	2,970	1,790	838	1,080
11	3,110	2,020	890	470	1,940	1,360	3,020	7,730	2,610	1,510	857	940
12	2,710	1,900	850	470	1,890	1,500	2,680	7,520	2,460	1,310	906	845
13	2,510	1,800	800	465	1,820	1,620	2,380	7,130	2,310	1,140	933	770
14	2,310	1,750	770	465	1,730	1,740	2,140	6,530	2,050	1,050	907	720
15	2,240	1,650	740	460	1,680	1,850	2,080	5,800	1,840	961	833	696
16	2,180	1,450	715	460	1,620	2,000	2,160	5,280	1,620	843	772	667
17	2,130	1,340	690	460	1,570	2,180	2,840	5,100	1,450	746	719	637
18	2,020	1,260	670	460	1,530	2,380	4,770	4,670	1,330	707	679	611
19	1,830	1,170	650	460	1,490	2,750	6,810	4,400	1,250	708	652	728
20	1,640	1,100	635	470	1,450	3,100	8,080	4,540	1,190	693	631	854
21	1,460	1,030	620	495	1,410	3,400	8,880	4,480	1,140	662	639	894
22	1,340	950	610	520	1,370	3,400	11,900	5,520	1,100	622	682	900
23	1,240	862	600	560	1,330	3,350	17,800	6,700	1,020	577	844	880
24	1,350	900	590	620	1,290	3,250	20,200	6,560	961	548	899	858
25	1,600	950	585	700	1,240	3,100	18,100	5,920	1,050	524	771	808
26	1,620	1,070	570	780	1,180	3,000	16,000	5,320	1,010	506	678	755
27	1,630	1,200	565	930	1,150	2,950	14,400	4,720	1,040	504	624	719
28	1,740	1,340	555	1,150	1,120	2,900	15,900	4,290	1,060	510	596	696
29	2,450	1,320	550	1,220	------	2,950	27,200	6,680	1,020	469	575	653
30	3,260	1,060	540	1,200	------	3,050	25,500	7,920	949	418	548	610
31	2,990	------	530	1,180	------	3,350	------	6,930	------	391	528	------
TOTAL	65,320	53,262	22,665	18,910	42,340	65,650	256,300	249,960	74,330	33,575	24,733	23,456
MEAN	2,107	1,775	731	610	1,512	2,118	8,543	8,063	2,478	1,083	798	782
MAX	3,890	3,110	1,000	1,220	2,010	3,400	27,200	19,500	6,630	2,570	1,500	1,350
MIN	1,240	862	530	460	1,120	965	2,080	4,290	949	391	397	518
CFSM	1.69	1.42	.58	.49	1.21	1.69	6.83	6.45	1.98	.87	.64	.63
IN.	1.94	1.59	.67	.56	1.26	1.95	7.63	7.44	2.21	1.00	.74	.70

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CAL YR 1972 TOTAL 822,937 MEAN 2,248 MAX 15,700 MIN 140 CFSM 1.80 IN 24.49
WTR YR 1973 TOTAL 930,501 MEAN 2,549 MAX 27,200 MIN 391 CFSM 2.04 IN 27.69

01011500 St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick

(International gaging station)

LOCATION.--Lat 47°12'25", long 68°57'25", Madawaska County, on left bank at outlet of Glasier Lake, 4.0 mi (6.4 km) upstream from mouth and 6.5 mi (10.5 km) west of Connors.

DRAINAGE AREA.--520 sq mi (1,347 sq km).

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 550 ft (168 m), from International Boundary Map.

AVERAGE DISCHARGE.--22 years, 865 cfs, (24.5 cu m/s), 22.59 in/yr (574 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,100 cfs (343 cu m/s) Apr. 30 (gage height, 13.54 ft or 4.127 m); minimum, 214 cfs (6.06 cu m/s) Sept. 18 (gage height, 2.63 ft or 0.802 m).

Period of record: Maximum discharge, 13,000 cfs (368 cu m/s) May 12, 1969 (gage height, 14.01 ft or 4.270 m); minimum, 68 cfs (1.93 cu m/s) Sept. 11, 12, 1960, Oct. 3, 1968.

CORRECTIONS.--The maximum discharge for water year 1952 occurred on May 2, 1952; the date previously published in WSP 1231 and 1721 was in error.

REMARKS.--Records excellent.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

REVISIONS.--WSP 1621: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	378	1,490	547	370	547	444	893	11,600	2,100	434	230	259
2	408	1,500	539	359	535	437	972	9,820	2,080	425	256	257
3	456	1,450	517	345	562	425	1,090	8,140	2,070	414	309	250
4	494	1,370	498	340	583	414	1,200	7,120	2,030	406	369	242
5	503	1,270	478	347	650	409	1,290	6,840	1,910	401	503	228
6	499	1,180	474	338	725	395	1,320	6,670	1,760	405	553	230
7	496	1,100	477	325	801	385	1,300	6,110	1,630	403	585	239
8	561	1,030	474	319	876	383	1,250	5,400	1,510	477	617	235
9	699	1,000	486	312	912	394	1,190	4,730	1,390	529	636	238
10	945	975	501	307	900	407	1,120	4,220	1,330	566	633	244
11	1,130	936	512	304	867	432	1,090	3,910	1,250	591	611	247
12	1,180	905	511	300	824	477	1,040	3,780	1,180	589	584	250
13	1,130	873	530	289	784	536	1,000	3,760	1,120	560	563	245
14	1,050	848	518	282	743	609	959	3,690	1,060	535	532	238
15	1,010	821	504	279	712	676	923	3,440	1,010	500	498	234
16	948	787	484	276	692	747	905	3,110	960	465	475	229
17	927	741	476	274	655	798	983	2,780	907	438	448	223
18	914	710	474	271	619	858	1,360	2,510	843	400	428	220
19	934	671	457	262	594	919	2,250	2,310	785	373	407	231
20	949	656	446	274	567	955	3,490	2,170	734	345	391	232
21	930	635	434	284	550	973	4,430	2,100	688	328	366	237
22	895	590	430	285	537	969	5,160	2,150	644	310	352	241
23	861	553	420	319	527	951	6,330	2,360	605	296	365	251
24	841	528	410	361	521	925	8,180	2,620	564	278	347	256
25	827	516	407	385	502	894	9,590	2,680	534	259	323	257
26	812	508	392	396	485	869	9,470	2,590	512	245	304	258
27	798	517	395	443	466	864	8,500	2,400	488	241	286	256
28	791	516	382	526	457	856	7,900	2,200	473	256	275	253
29	879	531	374	557	------	850	9,230	2,150	456	245	264	247
30	1,040	536	365	571	------	844	11,600	2,130	442	239	259	237
31	1,330	------	368	563	------	852	------	2,130	------	233	258	------
TOTAL	25,615	25,743	14,280	10,863	18,193	20,947	106,015	127,620	33,065	12,186	13,027	7,264
MEAN	826	858	461	350	650	676	3,534	4,117	1,102	393	420	242
MAX	1,330	1,500	547	571	912	973	11,600	11,600	2,100	591	636	259
MIN	378	508	365	262	457	383	893	2,100	442	233	230	220
CFSM	1.59	1.65	.89	.67	1.25	1.30	6.80	7.92	2.12	.76	.81	.47
IN.	1.83	1.84	1.02	.78	1.30	1.50	7.58	9.13	2.37	.87	.93	.52

CAL YR 1972 TOTAL 348,977 MEAN 953 MAX 7,890 MIN 135 CFSM 1.83 IN 24.97
WTR YR 1973 TOTAL 414,818 MEAN 1,136 MAX 11,600 MIN 220 CFSM 2.18 IN 29.68

01013500 Fish River near Fort Kent, Maine

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, on right bank 300 ft (91 m) upstream from highway bridge at Fort Kent Mills, 2 mi (3 km) upstream from mouth, and 2 mi (3 km) south of Fort Kent.

DRAINAGE AREA.--871 sq mi (2,256 sq km).

PERIOD OF RECORD.--July 1903 to December 1908 and May to November 1911 (published as "at Wallagrass"), September 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 511.38 ft (155.869 m) above mean sea level. July 1903 to December 1908 and May to November 1911 nonrecording gage at site 10 mi (16 km) upstream at different datum.

AVERAGE DISCHARGE.--49 years (1903-8, 1929-73), 1,379 cfs (39.05 cu m/s), 21.50 in/yr (546 mm/yr).

EXTREMES.--Current year: Maximum discharge, 15,800 cfs (447 cu m/s) Apr. 30 (gage height, 12.43 ft or 3.789 m); minimum, 218 cfs (6.17 cu m/s) Sept. 30 (gage height, 2.59 ft or 0.789 m).

Period of record: Maximum discharge, 15,800 cfs (447 cu m/s) Apr. 30, 1973 (gage height, 12.43 ft or 3.789 m); minimum, 34 cfs (0.963 cu m/s) Aug. 29, 1968.

REMARKS.--Records excellent except those for winter period, which are fair. Large lake area above station has not yet been developed for storage. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,250	1,840	1,340	1,220	1,440	1,160	2,100	14,700	5,380	1,020	489	350
2	1,190	1,870	1,330	1,210	1,400	1,110	2,250	13,900	5,160	980	502	340
3	1,150	1,980	1,320	1,200	1,350	1,080	2,400	13,200	4,910	964	496	330
4	1,120	2,010	1,290	1,190	1,380	1,040	2,500	12,700	4,630	1,070	597	325
5	1,090	2,000	1,330	1,180	1,490	1,020	2,630	12,200	4,360	1,130	893	320
6	1,050	1,980	1,230	1,170	1,600	1,000	2,680	11,500	4,120	1,180	726	347
7	1,030	1,950	1,280	1,160	1,720	980	2,670	10,700	3,860	1,200	709	377
8	1,520	1,930	1,280	1,150	1,830	965	2,640	9,980	3,610	1,570	683	343
9	1,560	1,920	1,280	1,140	1,950	960	2,580	9,250	3,400	1,600	665	326
10	1,550	1,960	1,290	1,130	2,020	950	2,530	8,630	3,160	1,680	660	308
11	1,580	1,950	1,300	1,120	2,010	970	2,530	8,120	2,970	1,730	665	302
12	1,590	1,940	1,330	1,120	1,940	1,050	2,480	7,940	2,780	1,690	670	290
13	1,560	1,920	1,370	1,100	1,880	1,130	2,390	7,570	2,580	1,630	675	274
14	1,550	1,880	1,430	1,090	1,800	1,230	2,310	7,110	2,410	1,570	620	253
15	1,530	1,820	1,450	1,080	1,750	1,330	2,240	6,620	2,370	1,490	580	257
16	1,530	1,760	1,450	1,070	1,700	1,410	2,290	6,180	2,200	1,390	550	253
17	1,510	1,700	1,430	1,070	1,630	1,500	2,580	5,830	2,020	1,300	520	236
18	1,450	1,640	1,420	1,060	1,570	1,580	3,280	5,410	1,890	1,210	500	244
19	1,410	1,580	1,400	1,050	1,530	1,670	3,980	5,220	1,770	1,120	480	275
20	1,350	1,550	1,380	1,050	1,480	1,690	4,480	5,080	1,670	1,060	460	274
21	1,310	1,540	1,370	1,060	1,450	1,740	4,960	4,980	1,580	979	460	270
22	1,270	1,460	1,360	1,080	1,400	1,760	6,050	5,500	1,490	892	465	264
23	1,240	1,400	1,340	1,090	1,390	1,780	8,440	5,640	1,390	824	490	268
24	1,320	1,360	1,330	1,110	1,370	1,780	10,000	5,660	1,300	768	510	257
25	1,390	1,300	1,300	1,130	1,330	1,800	10,300	5,510	1,240	725	520	252
26	1,410	1,290	1,290	1,170	1,290	1,840	10,200	5,290	1,250	685	490	247
27	1,430	1,410	1,280	1,220	1,240	1,860	10,000	5,010	1,190	656	465	249
28	1,470	1,380	1,260	1,260	1,200	1,870	11,200	4,860	1,170	656	440	246
29	1,670	1,360	1,250	1,330	------	1,880	15,000	5,300	1,120	595	410	242
30	1,760	1,330	1,240	1,400	------	1,910	15,600	5,450	1,070	557	385	227
31	1,820	------	1,230	1,450	------	1,980	------	5,420	------	508	365	------
TOTAL	43,660	51,010	41,180	35,860	44,140	44,025	155,290	240,460	78,050	34,429	17,140	8,556
MEAN	1,408	1,700	1,328	1,157	1,576	1,420	5,176	7,757	2,602	1,111	553	285
MAX	1,820	2,010	1,450	1,450	2,020	1,980	15,600	14,700	5,380	1,730	893	377
MIN	1,030	1,290	1,230	1,050	1,200	950	2,100	4,860	1,070	508	365	227
CFSM	1.62	1.95	1.52	1.33	1.81	1.63	5.94	8.91	2.99	1.28	.63	.33
IN.	1.86	2.18	1.76	1.53	1.89	1.88	6.63	10.27	3.33	1.47	.73	.37

CAL YR 1972 TOTAL 667,888 MEAN 1,825 MAX 10,300 MIN 230 CFSM 2.10 IN 28.53
WTR YR 1973 TOTAL 793,800 MEAN 2,175 MAX 15,600 MIN 227 CFSM 2.50 IN 33.90

01014000 St. John River below Fish River, at Fort Kent, Maine

(International gaging station)

LOCATION.--Lat 47°15'27", long 68°35'35", Aroostook County, on right bank at Fort Kent, and 0.2 mi (0.3 km) downstream from Fish River.

DRAINAGE AREA.--5,690 sq mi (14,740 sq km), approximately, not including 249 sq mi (645 sq km) drained by Chamberlain Lake through Telos Canal.

RECORDS AVAILABLE.--October 1926 to current year. Prior to October 1931, published as "at Fort Kent."

GAGE.--Water-stage recorder. Datum of gage is 488.9 ft (149.02 m) above mean sea level. Prior to Oct. 10, 1933, non-recording gage on opposite bank at same datum.

AVERAGE DISCHARGE.--47 years, 9,505 cfs (269 cu m/s), 22.69 in/yr (576 mm/yr).

EXTREMES.--Current year: Maximum discharge, 136,000 cfs (3,850 cu m/s) Apr. 30 (gage height, 25.76 ft or 7.852 m); minimum, 1,790 cfs (50.6 cu m/s) Aug. 2 (gage height, 2.04 ft or 0.622 m).
Period of record: Maximum discharge, 136,000 cfs (3,850 cu m/s) Apr. 30, 1973 (gage height, 25.76 ft or 7.852 m); minimum daily, 510 cfs (14.4 cu m/s) Mar. 13-15, 1948.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,730	16,500	6,040	4,050	6,000	4,650	14,000	108,000	30,500	4,240	1,840	2,750
2	8,140	14,300	5,180	4,000	5,700	4,500	16,000	86,500	30,100	4,290	1,900	2,870
3	7,860	13,500	4,950	4,000	5,750	4,350	18,500	71,500	27,200	4,560	2,610	2,780
4	7,010	13,700	4,690	3,950	6,400	4,200	20,500	68,800	23,800	5,510	5,110	3,990
5	6,360	13,900	4,640	3,900	8,600	4,050	21,200	73,100	20,600	7,860	12,000	3,720
6	5,870	13,200	4,800	3,850	10,500	4,000	20,600	66,600	17,800	9,200	13,600	3,550
7	5,490	12,200	5,200	3,850	11,000	4,000	19,300	56,500	16,100	8,400	11,800	4,310
8	7,650	11,300	5,900	3,800	10,800	4,200	17,600	48,200	15,000	8,890	9,340	10,300
9	14,400	10,800	6,300	3,800	10,500	4,700	16,700	42,500	14,000	9,080	7,270	10,500
10	17,000	10,800	6,300	3,750	10,200	5,400	15,400	39,100	13,000	8,730	6,030	8,510
11	14,700	10,600	6,180	3,700	9,700	6,300	13,200	38,100	12,000	7,790	5,430	6,650
12	12,600	10,200	5,850	3,700	9,300	7,300	13,200	38,900	11,200	6,740	5,860	5,320
13	11,200	9,750	5,600	3,650	8,900	8,500	12,100	40,200	10,600	5,890	8,100	4,450
14	10,600	9,410	5,400	3,650	8,400	9,500	11,600	36,800	9,650	5,260	7,140	3,940
15	10,200	9,140	5,300	3,600	8,000	10,300	11,900	32,200	9,030	4,770	5,830	3,550
16	9,700	8,660	5,150	3,600	7,600	11,200	13,100	27,900	8,140	4,350	5,000	3,230
17	10,300	7,680	5,050	3,600	7,300	12,100	14,300	25,400	7,560	3,930	4,550	2,930
18	10,800	6,590	4,900	3,550	7,000	13,300	24,800	23,600	7,270	3,620	4,830	2,750
19	11,100	6,140	4,800	3,550	6,800	15,000	42,700	22,200	7,730	3,390	4,280	2,890
20	10,000	5,880	4,700	3,500	6,500	16,300	54,500	22,600	7,190	3,230	3,780	3,250
21	8,720	5,430	4,600	3,600	6,300	17,000	58,200	23,600	6,490	3,070	3,460	5,160
22	7,780	5,070	4,550	3,700	6,050	17,800	65,200	26,800	5,870	2,840	3,300	5,240
23	7,230	4,680	4,500	4,000	5,900	16,700	88,100	36,000	5,340	2,620	3,680	4,970
24	7,310	4,610	4,450	4,450	5,700	15,300	111,000	38,600	4,990	2,420	4,240	4,510
25	7,930	5,270	4,400	5,100	5,500	14,000	109,000	33,700	4,770	2,270	3,830	4,280
26	9,080	5,510	4,300	6,100	5,200	13,000	94,800	28,500	4,650	2,140	3,380	4,070
27	9,570	5,830	4,270	7,100	5,050	12,500	79,500	24,600	4,440	2,040	3,080	3,710
28	9,810	6,320	4,200	7,500	4,750	12,000	76,700	21,900	4,510	2,320	2,830	3,410
29	12,000	6,560	4,180	7,300	------	12,000	113,000	25,300	4,610	2,450	2,590	3,120
30	17,900	6,410	4,120	6,900	------	12,100	130,000	34,500	4,390	2,290	2,410	2,850
31	19,300	------	4,090	6,450	------	12,500	------	34,000	------	2,010	2,320	------
TOTAL	314,400	269,940	154,590	137,250	209,400	308,750	1,316.7M	1,296.2M	348,530	146,200	161,420	133,560
MEAN	10,140	8,998	4,987	4,427	7,479	9,960	43,890	41,810	11,620	4,716	5,207	4,452
MAX	19,300	16,500	6,300	7,500	11,000	17,800	130,000	108,000	30,500	9,200	13,600	10,500
MIN	5,490	4,610	4,090	3,500	4,750	4,000	11,600	21,900	4,390	2,010	1,840	2,750
CFSM	1.78	1.58	.88	.78	1.31	1.75	7.71	7.35	2.04	.83	.92	.78
IN.	2.06	1.76	1.01	.90	1.37	2.02	8.61	8.47	2.28	.96	1.06	.87

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CAL YR 1972 TOTAL 4,164,050 MEAN 11,380 MAX 87,600 MIN 1,260 CFSM 2.00 IN 27.22
WTR YR 1973 TOTAL 4,796,940 MEAN 13,140 MAX 130,000 MIN 1,840 CFSM 2.31 IN 31.36

PEAK DISCHARGE (BASE, 45,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-24	2000	23.58	114,000	4-30	0300	25.76	136,000

M Expressed in thousands.

01015800 Aroostook River near Masardis, Maine

LOCATION.--Lat 46°31'21", long 68°22'23", Aroostook County, on left bank 180 ft (55 m) upstream from new highway bridge and 1.8 miles (2.9 km) downstream from St. Croix Stream and Masardis.

DRAINAGE AREA.--888 sq mi (2,300 sq km).

PERIOD OF RECORD.--September 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 530.0 ft (161.54 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 1,463 cfs (41.43 cu m/s), 22.37 in/yr (568 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 20,800 cfs (589 cu m/s) Apr. 30 (gage height 16.95 ft or 5.166 m); minimum daily 151 cfs (4.28 cu m/s) Sept. 17.

Period of record: Maximum discharge, 21,500 cfs (609 cu m/s) Apr. 25, 1958 (gage height, 16.30 ft or 4.968 m); minimum, 41 cfs (1.16 cu m/s) Sept. 26, 27, 1968 (gage height, 1.89 ft or 0.576 m).

REMARKS.--Records fair. Considerable regulation by Millinocket Lake (capacity, 1,110,000,000 cu ft or 31,400,000 cu m) used for power. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	780	1,580	840	580	900	870	2,600	18,500	4,700	717	437	179
2	860	1,430	780	585	885	855	2,930	15,000	4,350	890	475	182
3	900	1,500	740	595	930	840	3,450	12,000	4,000	1,080	544	179
4	840	2,050	720	595	1,070	835	3,700	9,700	3,350	1,730	606	173
5	790	2,100	705	600	1,270	835	3,770	8,400	2,800	3,740	671	166
6	760	1,800	735	595	1,460	830	3,550	7,400	2,350	6,820	753	165
7	720	1,660	810	590	1,530	855	3,400	6,600	2,150	6,590	802	229
8	790	1,550	920	590	1,530	900	3,250	5,600	1,980	4,840	709	435
9	900	1,500	1,030	585	1,500	1,020	3,100	5,000	1,900	3,560	587	564
10	1,500	1,680	1,040	585	1,470	1,100	3,000	4,400	1,880	2,570	583	502
11	1,350	2,100	1,020	580	1,420	1,180	2,880	4,300	1,800	1,980	826	419
12	1,230	2,000	975	580	1,370	1,260	2,750	4,450	1,620	1,680	969	254
13	1,170	1,820	940	580	1,330	1,310	2,670	4,900	1,470	1,420	933	203
14	1,130	1,600	910	575	1,280	1,480	2,580	4,600	1,330	1,210	805	183
15	1,110	1,430	890	570	1,230	1,700	2,500	4,150	1,200	1,090	522	168
16	1,110	1,050	850	570	1,200	1,900	2,500	3,550	1,100	946	372	158
17	1,100	870	820	565	1,170	2,020	2,550	3,800	1,130	832	445	151
18	990	800	780	560	1,130	2,300	4,400	3,600	1,110	798	338	158
19	740	750	755	560	1,100	2,750	7,540	3,350	1,000	724	512	313
20	685	710	730	570	1,070	3,400	9,070	3,300	897	653	513	704
21	660	675	710	595	1,040	3,520	9,630	3,250	814	592	465	706
22	645	650	695	640	1,030	3,500	10,700	5,300	872	536	275	600
23	640	645	675	710	1,000	3,270	14,000	8,100	867	502	280	498
24	760	640	660	790	970	3,050	16,800	8,200	770	586	285	436
25	1,300	670	650	910	940	2,850	15,500	6,500	693	563	283	385
26	1,750	710	635	1,020	920	2,700	14,000	5,300	681	533	424	338
27	1,680	780	625	1,050	900	2,550	12,200	4,100	743	520	403	298
28	1,520	870	610	1,040	885	2,480	11,500	3,500	749	524	357	266
29	1,520	940	605	1,000	------	2,400	16,500	3,700	738	493	213	239
30	1,850	910	595	960	------	2,350	20,500	5,600	707	482	170	219
31	1,780	------	585	925	------	2,420	------	5,300	------	460	167	------
TOTAL	33,560	37,470	24,035	21,250	32,530	59,330	213,520	191,450	49,751	49,661	15,724	9,470
MEAN	1,083	1,249	775	685	1,162	1,914	7,117	6,176	1,658	1,602	507	316
MAX	1,850	2,100	1,040	1,050	1,530	3,520	20,500	18,500	4,700	6,820	969	706
MIN	640	640	585	560	885	830	2,500	3,250	681	460	167	151
MEAN*	1,061	1,317	802	640	1,012	1,863	7,415	6,157	1,559	1,529	420	318
CFSM*	1.19	1.48	.90	.72	1.14	2.10	8.35	6.93	1.76	1.72	.47	.36
IN. *	1.37	1.65	1.04	.83	1.19	2.42	9.32	7.99	1.96	1.98	.55	.40

CAL YR 1972 TOTAL 637,538 MEAN 1,742 MAX 13,800 MIN 170 MEAN* 1,754 CFSM* 1.98 IN* 26.86
WTR YR 1973 TOTAL 737,751 MEAN 2,021 MAX 20,500 MIN 151 MEAN* 2,009 CFSM* 2.26 IN* 30.70

* Adjusted for change in contents in Millinocket Lake. Records furnished by Maine Public Service Co.

01016500 Machias River near Ashland, Maine

LOCATION.--Lat 46°37'42", long 68°26'07", Aroostook County, on right bank 100 ft (30 m) upstream from highway bridge, 0.8 mi (1.3 km) upstream from mouth, and 1.5 mi (2.4 km) west of Ashland.

DRAINAGE AREA.--330 sq mi (855 sq km).

PERIOD OF RECORD.--June 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (163 m), from topographic map.

AVERAGE DISCHARGE.--22 years, 555 cfs (15.72 cu m/s), 22.84 in/yr (580 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,400 cfs (323 cu m/s) Apr. 29 (gage height, 9.03 ft or 2.752 m); minimum, 38 cfs (1.08 cu m/s) Sept. 6 (gage height, 0.52 ft or 0.158 m).
Period of record: Maximum discharge, 16,600 cfs (470 cu m/s) June 29, 1954 (gage height, 11.94 ft or 3.639 m), from rating curve extended above 7,900 cfs (224 cu m/s); minimum, 5.4 cfs (0.15 cu m/s) Sept. 17, 1952.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	895	305	200	300	310	1,000	7,870	2,090	267	75	54
2	340	799	285	195	305	305	1,200	5,170	1,860	286	87	52
3	333	870	270	190	345	305	1,320	3,830	1,540	287	115	51
4	316	964	260	185	410	300	1,250	3,390	1,250	474	123	47
5	295	921	265	180	530	300	1,070	3,190	1,020	758	120	44
6	275	820	325	180	630	310	950	2,940	873	1,100	155	46
7	258	732	400	180	560	325	850	2,600	752	1,030	181	74
8	414	681	445	175	630	350	780	2,260	664	911	185	87
9	620	687	460	170	600	385	730	1,970	605	795	170	77
10	700	818	440	170	560	430	660	1,810	600	627	154	73
11	637	828	415	165	540	480	610	1,800	525	517	147	68
12	573	759	390	165	510	560	580	2,110	462	441	146	64
13	539	693	370	160	490	650	550	2,200	423	380	147	59
14	505	640	355	160	465	740	530	2,050	377	330	149	54
15	491	591	335	155	450	850	520	1,760	346	293	139	50
16	494	509	325	155	435	890	610	1,540	333	255	126	48
17	476	418	310	155	420	950	1,020	1,450	336	226	114	45
18	453	385	300	150	405	1,050	1,940	1,310	309	201	102	49
19	417	355	295	150	395	1,130	3,020	1,300	277	181	92	74
20	388	335	280	160	380	1,180	3,640	1,350	249	164	82	88
21	362	315	270	175	370	1,170	3,760	1,470	224	147	75	82
22	344	300	260	205	360	1,130	4,520	2,500	223	130	69	79
23	341	280	250	235	355	1,050	5,660	3,100	215	117	77	77
24	435	275	240	280	345	970	6,650	2,990	192	107	82	77
25	599	280	235	350	335	900	6,430	2,540	194	99	80	75
26	650	300	230	430	325	850	5,470	2,030	287	92	73	70
27	635	330	220	415	320	800	4,550	1,620	333	89	69	68
28	623	375	215	380	315	770	5,670	1,370	312	88	65	64
29	714	365	210	350	------	745	10,700	1,750	295	85	60	60
30	885	340	205	325	------	740	10,600	2,450	270	82	57	56
31	949	------	200	310	------	830	------	2,380	------	77	55	------
TOTAL	15,351	16,860	9,365	6,855	12,185	21,755	86,840	76,100	17,436	10,636	3,371	1,912
MEAN	495	562	302	221	435	702	2,895	2,455	581	343	109	63.7
MAX	949	964	460	430	660	1,180	10,700	7,870	2,090	1,100	185	88
MIN	258	275	200	150	300	300	520	1,300	192	77	55	44
CFSM	1.50	1.70	.92	.67	1.32	2.13	8.77	7.44	1.76	1.04	.33	.19
IN.	1.73	1.90	1.06	.77	1.37	2.45	9.79	8.58	1.97	1.20	.38	.22

CAL YR 1972 TOTAL 240,099 MEAN 656 MAX 6,380 MIN 56 CFSM 1.99 IN 27.07
WTR YR 1973 TOTAL 278,666 MEAN 763 MAX 10,700 MIN 44 CFSM 2.31 IN 31.41

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-24	0800	6.62	6,700	4-29	1200	9.03	11,400

01017000 Aroostook River at Washburn, Maine

LOCATION.--Lat 46°46'36", long 68°09'29", Aroostook County, on right bank 50 ft (15 m) upstream from Bangor & Aroostook Railroad bridge, 0.1 mi (0.2 km) downstream from Salmon Brook, and 1.0 mi (1.6 km) south of railroad station at Washburn.

DRAINAGE AREA.--1,652 sq mi (4,279 sq km).

PERIOD OF RECORD.--August 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 436.40 ft (133.015 m) above mean sea level. Prior to Oct. 1, 1948, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--43 years, 2,599 cfs (73.60 cu m/s), 21.36 in/yr (543 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 43,100 cfs (1,220 cu m/s) Apr. 30 (gage height, 13.68 ft or 4.170 m); minimum daily 268 cfs (7.59 cu m/s) Sept. 17.

Period of record: Maximum discharge, 43,100 cfs (1,220 cu m/s) Apr. 30, 1973 (gage height, 13.68 ft or 4.170 m, present datum); maximum gage height, 15.78 ft (4.810 m) Apr. 6, 1951 (backwater from ice); minimum daily discharge, 75 cfs (2.12 cu m/s) Feb. 13-15, 1948.

REMARKS.--Records excellent except those for winter period, which are fair. Considerable regulation by Squa Pan Lake (capacity, 2,893,000,000 cu ft or 81,900,000 cu m), and by Millinocket Lake (capacity, 1,110,000,000 cu ft or 31,400,000 cu m) used for power.

REVISIONS (WATER YEARS).---WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	903	3,540	1,560	1,110	1,620	1,620	4,850	36,200	9,780	1,160	597	289
2	1,130	3,180	1,480	1,120	1,600	1,600	5,350	26,700	8,790	1,230	622	294
3	1,420	3,020	1,400	1,130	1,730	1,580	6,200	20,000	7,290	1,420	776	296
4	1,170	3,910	1,340	1,140	2,000	1,560	6,700	16,500	6,170	2,600	849	290
5	1,060	4,130	1,330	1,140	2,300	1,550	6,600	14,700	5,220	5,040	933	282
6	960	3,720	1,400	1,130	2,650	1,540	6,350	13,100	4,390	8,910	1,020	286
7	903	3,360	1,600	1,120	2,800	1,570	6,100	11,500	3,980	9,740	1,160	330
8	1,170	3,000	1,850	1,120	2,800	1,610	6,000	9,910	3,600	8,820	1,180	404
9	2,170	2,820	2,000	1,110	2,770	1,820	5,700	8,770	3,570	7,850	1,000	596
10	2,510	3,360	2,000	1,100	2,680	2,030	5,500	8,010	3,470	5,750	889	682
11	2,340	3,910	1,930	1,090	2,580	2,200	5,200	7,800	3,280	4,250	923	618
12	2,030	3,910	1,870	1,080	2,480	2,350	5,050	8,410	2,980	3,510	1,130	525
13	1,810	3,610	1,800	1,060	2,400	2,550	4,700	9,090	2,710	2,980	1,240	384
14	1,700	3,270	1,730	1,060	2,300	2,900	4,490	8,730	2,440	2,530	1,170	324
15	1,600	2,880	1,670	1,050	2,250	3,450	4,160	7,850	2,270	2,240	979	300
16	1,600	2,450	1,600	1,050	2,170	3,750	3,810	6,790	2,120	2,000	734	283
17	1,770	1,810	1,540	1,040	2,100	4,050	5,510	6,860	2,060	1,800	609	268
18	1,750	1,680	1,500	1,030	2,050	4,550	9,450	6,410	2,000	1,640	616	271
19	1,510	1,580	1,450	1,030	2,000	5,000	13,700	6,110	1,850	1,510	533	320
20	1,300	1,490	1,400	1,030	1,960	5,300	16,100	6,130	1,590	1,400	667	532
21	1,300	1,400	1,370	1,060	1,900	5,500	16,900	6,520	1,300	1,040	655	874
22	1,090	1,320	1,330	1,120	1,880	5,400	19,000	10,800	1,280	859	584	928
23	1,260	1,270	1,300	1,230	1,830	5,150	23,900	14,900	1,350	795	452	1,010
24	1,410	1,250	1,270	1,400	1,770	5,000	28,100	14,600	1,220	721	436	911
25	2,230	1,350	1,230	1,600	1,740	4,750	28,000	11,900	1,090	775	436	848
26	3,140	1,500	1,210	1,820	1,700	4,650	25,000	9,270	1,090	734	470	790
27	3,250	1,620	1,190	1,900	1,670	4,550	21,400	7,470	1,230	700	552	741
28	3,000	1,760	1,170	1,870	1,640	4,450	22,200	6,260	1,300	688	544	692
29	2,910	1,800	1,140	1,800	------	4,350	35,900	7,920	1,270	676	486	652
30	3,720	1,700	1,120	1,730	------	4,250	42,400	11,100	1,200	649	356	363
31	3,870	------	1,110	1,680	------	4,500	------	11,100	------	620	298	------
TOTAL	57,986	75,600	45,890	38,950	59,370	105,130	394,320	351,410	91,890	84,637	22,896	15,383
MEAN	1,871	2,520	1,480	1,256	2,120	3,391	13,140	11,340	3,063	2,730	739	513
MAX	3,870	4,130	2,000	1,900	2,800	5,500	42,400	36,200	9,780	9,740	1,240	1,010
MIN	903	1,250	1,110	1,030	1,600	1,540	3,810	6,110	1,090	620	298	268
MEAN*	1,868	2,698	1,452	993	1,755	3,120	14,000	11,470	2,857	2,635	633	413
CFSM*	1.13	1.63	.88	.60	1.06	1.89	8.47	6.94	1.73	1.60	.38	.25
IN. *	1.30	1.82	1.01	.69	1.10	2.18	9.45	8.00	1.93	1.84	.44	.28

CAL YR 1972 TOTAL 1,125,396 MEAN 3,075 MAX 24,000 MIN 360 MEAN* 3,108 CFSM* 1.88 IN* 25.59
WTR YR 1973 TOTAL 1,343,462 MEAN 3,681 MAX 42,400 MIN 268 MEAN* 3,659 CFSM* 2.21 IN* 30.04

*Adjusted for change in contents in Millinocket and Squa Pan Lakes. Records furnished by Maine Public Service Co.

01017900 Marley Brook near Ludlow, Maine

LOCATION.--Lat 46°08'42", long 68°03'42", Aroostook County, on left bank at upstream entrance of culvert under U. S. Route 2, 2,200 ft (671 m) upstream from mouth, and 1.1 mi (1.8 km) west of Ludlow.

DRAINAGE AREA.--1.47 sq mi (3.81 sq km).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage 610 ft (186 m), topographic map.

AVERAGE DISCHARGE.--9 years (1965-73), 2.45 cfs (0.0694 cu m/s), 22.63 in/yr (575 mm/yr).

EXTREMES.--Current year: Maximum discharge, 335 cfs (9.49 cu m/s) July 5 (gage height 10.36 ft or 3.158 m); minimum discharge 0.04 cfs (0.001 cu m/s) Sept. 6 (gage height 3.50 ft or 1.067 m).

Period of record: Maximum discharge, 335 cfs (9.49 cu m/s) July 5, 1973 (gage height 10.36 ft or 3.158 m); minimum discharge, 0.02 cfs (0.001 cu m/s) Aug. 31, Sept. 1-4, 1966 and Aug. 12, 1968.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	1.0	2.8	1.4	1.6	.98	14	8.1	3.2	.97	.50	.18
2	.41	1.8	2.3	1.3	1.9	.98	11	5.9	2.4	.95	.66	.43
3	.25	3.5	2.0	1.2	7.4	.98	9.6	4.9	1.9	.78	1.1	.26
4	.22	2.9	1.8	1.1	13	.99	8.5	4.5	1.6	16	.75	.22
5	.26	2.3	1.6	1.0	8.5	1.0	7.0	3.6	1.5	57	.63	.18
6	.26	1.9	1.8	1.0	3.8	1.1	6.2	2.8	1.3	26	.37	.36
7	.39	1.6	6.5	.97	1.6	1.2	5.2	2.3	1.8	6.8	.26	.76
8	2.8	1.9	4.3	.94	1.5	2.4	4.5	2.1	1.3	3.9	.26	.40
9	1.4	3.4	3.0	.92	1.4	6.9	4.5	1.9	1.3	2.3	.22	.31
10	1.0	4.5	2.2	.90	1.4	4.1	4.0	1.9	1.7	1.9	1.9	.29
11	.81	3.8	2.0	.88	1.3	3.1	3.8	2.3	1.2	1.8	1.8	.26
12	.75	3.1	1.8	.87	1.3	3.9	3.5	3.3	1.1	1.6	.94	.25
13	.75	2.4	1.7	.86	1.2	7.3	3.2	3.2	1.0	1.4	.50	.22
14	.70	1.7	1.7	.84	1.2	5.5	3.0	2.4	.94	1.3	.50	.22
15	.68	.96	1.6	.84	1.2	4.4	3.5	1.9	.85	1.2	.37	.22
16	.68	1.7	1.5	.84	1.2	4.7	8.5	3.3	.86	1.1	.31	.22
17	.68	1.1	1.5	.83	1.1	6.9	23	3.6	1.3	1.0	.31	.22
18	.65	.94	1.4	.83	1.1	18	38	2.5	.89	.92	.56	.57
19	.51	1.5	1.3	.83	1.1	14	32	3.5	.77	.86	.56	1.9
20	.43	3.0	1.3	.90	1.1	7.1	22	3.1	.65	.82	.37	.93
21	.39	2.6	1.3	1.1	1.0	5.5	19	12	.60	.78	.26	.74
22	.37	2.0	1.3	1.7	1.0	4.7	34	22	.56	.67	.18	.59
23	.57	1.5	1.3	3.7	1.0	4.3	39	7.0	.60	.59	.50	.50
24	2.1	1.3	1.2	5.7	1.0	4.3	24	3.9	.50	.50	.50	.42
25	2.5	1.4	1.2	3.3	.99	4.8	18	3.0	.48	.53	.31	.33
26	1.9	2.3	1.2	2.6	.98	8.0	12	2.6	.43	.50	.18	.30
27	1.4	3.4	1.2	2.3	.98	8.6	10	1.9	.36	.50	.14	.26
28	1.2	4.7	1.2	2.1	.98	6.0	47	1.9	.51	.50	.31	.26
29	1.6	4.0	1.2	1.9	------	5.2	47	3.0	.62	.48	.37	.23
30	1.6	3.4	1.1	1.8	------	5.7	13	2.6	.62	.82	.22	.18
31	1.3	------	1.1	1.7	------	11	------	2.9	------	.40	.18	------
TOTAL	29.18	71.60	57.4	47.15	61.83	163.63	478.0	129.9	32.84	134.87	16.02	12.21
MEAN	.94	2.39	1.85	1.52	2.21	5.28	15.9	4.19	1.09	4.35	.52	.41
MAX	2.8	4.7	6.5	5.7	13	18	47	22	3.2	57	1.9	1.9
MIN	.22	.94	1.1	.83	.98	.98	3.0	1.9	.36	.40	.14	.18
CFSM	.64	1.63	1.26	1.03	1.50	3.59	10.8	2.85	.74	2.96	.35	.28
IN.	.74	1.81	1.45	1.19	1.56	4.14	12.10	3.29	.83	3.41	.41	.31

CAL YR 1972 TOTAL 816.95 MEAN 2.23 MAX 35 MIN .18 CFSM 1.52 IN 20.67
WTR YR 1973 TOTAL 1,234.63 MEAN 3.38 MAX 57 MIN .14 CFSM 2.30 IN 31.24

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-18	2015	5.45	58	5-21	1815	5.01	39
4-23	1700	5.32	53	7-05	2030	10.36	335
4-29	0145	6.29	98				

Note.--No gage-height record Nov. 1 to Dec. 4.

01018000 Meduxnekeag River near Houlton, Maine

LOCATION.--Lat 46°06'17", long 67°52'00", Aroostook County, on right bank 0.3 mi (0.5 km) downstream from South Branch, and 2.0 mi (3.2 km) upstream from Houlton.

DRAINAGE AREA.--175 sq mi (453 sq km).

PERIOD OF RECORD.--October 1940 to current year. October 1940 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 333.92 ft (101.779 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 287 cfs (8.128 cu m/s), 22.27 in/yr (566 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,460 cfs (183 cu m/s) Apr. 29 (gage height, 9.32 ft or 2.841 m); minimum daily, 18 cfs (0.51 cu m/s) Oct. 6, Sept. 17.

Period of record: Maximum discharge, 6,620 cfs (187 cu m/s) Apr. 23, 1958 (gage height, 9.30 ft or 2.835 m); maximum gage height, 10.83 ft (3.301 m) Mar. 27, 1953 (backwater from ice); minimum discharge, 3.6 cfs (0.10 cu m/s) Sept. 19, 1946 (gage height, 2.09 ft or 0.637 m).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 1031: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	145	396	130	250	155	1,100	2,590	558	109	34	24
2	25	127	320	135	245	150	1,150	1,690	590	116	36	24
3	22	220	290	140	270	145	1,110	1,310	507	104	54	23
4	21	388	270	135	350	140	1,030	1,120	415	269	78	22
5	20	352	255	125	520	140	969	995	336	1,010	92	20
6	18	289	250	115	770	135	927	865	286	1,770	91	23
7	21	248	450	110	760	135	837	772	267	1,560	79	43
8	75	227	560	105	700	150	763	681	252	829	69	41
9	118	231	440	105	630	230	710	597	233	543	59	35
10	117	407	380	100	560	310	648	536	247	371	67	30
11	94	455	340	100	515	330	607	522	236	281	99	29
12	76	402	300	100	475	400	546	571	209	236	128	25
13	68	341	265	99	430	510	493	612	193	205	129	23
14	63	295	240	98	400	590	461	589	166	171	112	20
15	57	253	225	97	370	615	482	496	145	146	91	20
16	60	216	210	96	345	690	642	460	138	130	74	19
17	55	218	200	96	320	790	1,120	588	152	114	64	18
18	50	169	190	96	305	1,150	2,080	541	141	99	55	22
19	46	159	180	96	290	1,450	2,760	512	121	90	47	76
20	43	171	175	120	270	1,330	2,680	505	105	80	42	88
21	41	317	170	175	255	1,070	2,240	505	92	71	54	82
22	45	283	160	200	240	902	2,400	1,150	89	63	48	71
23	49	239	160	235	225	783	3,000	1,620	86	55	44	61
24	107	196	155	300	210	711	3,180	1,280	78	49	38	54
25	204	177	150	370	200	730	2,600	927	70	44	32	46
26	223	182	150	450	185	835	2,110	735	65	41	28	44
27	196	379	145	475	175	875	1,720	620	61	39	25	36
28	163	469	140	410	165	836	2,120	531	76	40	25	32
29	157	531	140	340	------	772	5,650	529	102	36	24	30
30	185	471	135	290	------	788	4,900	580	113	38	22	26
31	174	------	130	265	------	927	------	528	------	37	23	------
TOTAL	2,617	8,557	7,571	5,708	10,430	18,774	51,035	25,557	6,129	8,746	1,863	1,107
MEAN	84.4	285	244	184	373	606	1,701	824	204	282	60.1	36.9
MAX	223	531	560	475	770	1,450	5,650	2,590	590	1,770	129	88
MIN	18	127	130	96	165	135	461	460	61	36	22	18
CFSM	.48	1.63	1.39	1.05	2.13	3.46	9.72	4.71	1.17	1.61	.34	.21
IN.	.55	1.82	1.61	1.21	2.22	3.99	10.85	5.43	1.30	1.86	.40	.24

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CAL YR 1972 TOTAL 93,804 MEAN 256 MAX 2,620 MIN 14 CFSM 1.46 IN 19.94
WTR YR 1973 TOTAL 148,094 MEAN 406 MAX 5,650 MIN 18 CFSM 2.32 IN 31.48

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-24	0600	7.10	3,320	4-29	1700	9.32	6,460

01018500 St. Croix River at Vanceboro, Maine

(International gaging station)

LOCATION.--Lat 45°34'08", long 67°25'47", Washington County, on right bank at international highway bridge in Vanceboro, and 400 ft (120 m) downstream from outlet of Spednik Lake.

DRAINAGE AREA.--417 sq mi (1,080 sq km).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 367.75 ft (112.090 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 706 cfs (19.99 cu m/s), 22.99 in/yr (584 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,040 cfs (171 cu m/s) Apr. 29 (gage height 10.43 ft or 3.179 m); minimum daily, 237 cfs (6.7 cu m/s) Nov. 9.

Period of record: Maximum discharge, 4,980 cfs (141 cu m/s) May 30, 1961 (gage height, 9.65 ft or 2.941 m); minimum daily, 1.9 cfs (0.054 cu m/s) Oct. 22, Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes (combined usable capacity, about 13,200,000,000 cu ft or 374,000,000 cu m). Final regulation is at Spednik Lake Dam about 400 ft (120 m) upstream.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

REVISIONS.--WSP 1431: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,010	322	263	864	479	1,570	1,590	3,570	860	794	805	1,180
2	636	322	270	864	860	1,570	1,590	4,250	858	589	805	1,200
3	629	322	270	602	874	1,550	1,670	4,820	856	412	535	1,200
4	614	322	270	407	880	1,540	1,770	5,040	852	412	275	1,200
5	619	322	270	406	885	1,540	1,870	3,710	851	423	282	1,230
6	726	264	273	409	891	1,530	1,930	2,290	856	431	702	1,230
7	989	238	264	409	890	1,530	1,940	2,290	1,050	433	837	1,210
8	997	238	288	407	896	1,510	1,940	2,270	1,220	435	838	1,190
9	994	237	291	410	901	1,200	2,140	1,290	1,210	509	846	1,190
10	677	240	291	410	898	1,010	2,250	362	1,210	627	783	957
11	727	243	291	425	892	1,010	2,240	362	1,190	673	852	1,150
12	709	246	291	614	886	1,010	2,230	719	1,170	755	860	1,020
13	812	246	294	610	897	1,010	2,220	1,060	1,170	887	892	1,150
14	950	247	298	610	900	1,010	2,220	1,060	1,180	879	891	1,150
15	953	251	298	746	899	1,020	2,210	688	1,180	874	907	1,130
16	711	253	300	841	902	1,020	2,100	1,090	1,160	874	871	1,130
17	621	253	305	842	906	1,020	1,900	1,380	1,160	871	861	1,360
18	864	253	305	841	898	1,030	1,390	1,230	1,150	868	858	1,600
19	936	253	305	837	894	1,250	630	1,230	1,150	863	858	1,600
20	933	255	305	838	896	1,560	303	1,230	1,150	814	855	1,300
21	921	259	305	846	896	1,570	319	2,010	1,150	859	857	1,120
22	909	259	305	842	900	1,580	866	3,370	1,140	851	864	1,100
23	898	259	305	507	900	1,580	2,590	3,550	1,130	844	867	1,090
24	895	259	305	315	901	1,570	3,520	2,900	462	839	879	586
25	885	259	305	316	898	1,570	3,780	2,310	367	840	867	278
26	880	259	305	317	1,040	1,580	3,810	2,310	1,150	834	862	277
27	873	268	626	319	1,260	1,570	3,640	1,560	1,150	831	1,040	794
28	864	362	862	315	1,440	1,580	3,720	1,030	1,140	816	1,200	1,490
29	867	263	865	307	------	1,580	5,800	1,140	930	814	1,190	1,580
30	634	263	858	307	------	1,580	4,500	1,230	794	810	1,180	1,560
31	322	------	859	307	------	1,580	------	1,040	------	810	1,180	------
TOTAL	25,055	8,037	11,642	17,090	25,659	42,830	68,648	62,391	30,896	22,571	26,399	34,252
MEAN	808	268	376	551	916	1,382	2,288	2,013	1,030	728	852	1,142
MAX	1,010	362	865	864	1,440	1,580	5,800	5,040	1,220	887	1,200	1,600
MIN	322	237	263	307	479	1,010	303	362	367	412	275	277

CAL YR 1972 TOTAL 208,035 MEAN 568 MAX 1,760 MIN 229
WTR YR 1973 TOTAL 375,470 MEAN 1,029 MAX 5,800 MIN 237

01019000 Grand Lake Stream at Grand Lake Stream, Maine

LOCATION.--Lat 45°10'23", long 67°46'06", Washington County, on left bank at Big Falls, 0.5 mi (0.8 km) southeast of village of Grand Lake Stream, and 0.8 mi (1.3 km) downstream from outlet dam of Grand Lake.

DRAINAGE AREA.--224 sq mi (580 sq km).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft (83.503 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 393 cfs (11.13 cu m/s), 23.83 in/yr (605 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,980 cfs (56.1 cu m/s) May 3 (gage height, 5.60 ft or 1.707 m); minimum daily, 120 cfs (3.40 cu m/s) Jan. 24-31.

Period of record: Maximum discharge, 2,840 cfs (80.4 cu m/s) June 12, 1952 (gage height, 6.35 ft or 1.935 m); minimum daily, 5 cfs (0.14 cu m/s) Dec. 3-6, 11, 1945.

REMARKS.--Records excellent. Flow completely regulated by Grand Lake, 0.8 mi (1.3 km) upstream, and other lakes (combined usable capacity, about 8,250,000,000 cu ft or 234,000,000 cu m). Records of chemical analyses for water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	497	192	240	293	125	817	1,330	457	997	592	867	812
2	477	191	242	295	125	817	1,320	1,140	994	593	867	805
3	449	199	242	295	230	814	1,330	1,840	617	590	748	800
4	372	201	242	293	330	814	1,330	1,960	382	588	593	795
5	391	198	242	295	330	816	1,340	1,880	378	604	594	788
6	371	193	247	295	330	810	1,340	1,750	377	641	595	779
7	365	198	267	297	330	807	1,330	1,550	379	649	595	777
8	381	196	261	298	330	814	1,340	1,530	381	655	595	769
9	373	201	261	298	330	819	1,330	1,400	379	845	595	761
10	342	217	262	298	330	813	1,320	1,530	377	1,140	598	750
11	369	220	265	298	335	811	1,310	991	377	1,140	605	738
12	363	219	265	298	335	752	1,310	638	467	1,150	606	734
13	355	212	267	298	335	978	1,300	636	637	1,140	605	725
14	340	208	266	293	335	1,070	1,280	366	635	1,130	592	718
15	338	210	268	298	340	1,060	1,270	160	630	1,120	581	711
16	322	210	270	298	340	1,070	1,260	160	622	1,120	578	704
17	312	207	271	298	340	1,080	1,070	158	631	1,110	575	697
18	307	207	271	298	340	1,130	754	157	622	866	572	690
19	301	207	271	467	340	1,240	404	159	618	629	567	694
20	299	212	271	659	340	1,330	252	159	607	624	565	682
21	287	218	271	672	340	1,430	249	745	601	618	558	681
22	262	216	273	670	344	1,420	248	1,530	601	617	554	669
23	244	215	275	280	344	1,410	251	1,690	602	614	554	667
24	186	216	275	120	344	1,400	248	1,440	597	608	550	661
25	190	216	277	120	345	1,390	245	1,270	594	602	541	655
26	189	224	278	120	451	1,380	241	1,260	595	598	536	650
27	187	230	278	120	675	1,370	238	908	597	593	533	643
28	185	229	276	120	750	1,320	418	708	595	587	681	633
29	193	234	278	120	------	1,330	1,170	979	592	584	831	622
30	197	235	276	120	------	1,350	393	1,250	586	688	822	615
31	194	------	279	120	------	1,340	------	1,100	------	871	812	------
TOTAL	9,658	6,336	8,253	9,051	9,733	33,802	27,221	31,501	17,067	23,906	19,465	21,425
MEAN	312	211	266	292	348	1,090	937	1,016	569	771	628	714
MAX	497	235	279	672	750	1,430	1,340	1,960	997	1,150	867	812
MIN	185	191	240	120	125	752	238	157	377	584	533	615

CAL YR 1972 TOTAL 148,500 MEAN 406 MAX 1,190 MIN 149
WTR YR 1973 TOTAL 217,398 MEAN 596 MAX 1,960 MIN 120

01020000 St. Croix River near Baileyville, Maine

(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36", Washington County, in township of Baileyville, on right bank 700 ft (213 m) downstream from powerhouse of Georgia-Pacific Corporation, at Grand Falls, and 8 mi (13 km) upstream from village of Woodland.

DRAINAGE AREA.--1,320 sq mi (3,419 sq km).

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 148.8 ft (45.42 m) above mean sea level.

AVERAGE DISCHARGE.--54 years, 2,293 cfs (64.94 cu m/s), 23.59 in/yr (599 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,000 cfs (538 cu m/s) Apr. 30 (gage height, 10.61 ft or 3.234 m); minimum daily, 902 cfs (25.5 cu m/s) Oct. 23.
Period of record: Maximum discharge, about 23,300 cfs (660 cu m/s) May 1, 1923 (gage height, 13.90 ft or 4.237 m); minimum daily, 64 cfs (1.81 cu m/s) Oct. 13, 1957.

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes, Grand and other lakes (combined capacity about 25,000,000,000 cu ft or 708,000,000 cu m). Final regulation is at Grand Falls Dam about 700 ft (213 m) upstream. Records of chemical analyses for water year 1973 are published in Part 2 of this report.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

REVISIONS (WATER YEARS).--WSP 1231: 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,540	2,100	4,150	1,830	3,050	2,610	5,610	17,600	3,720	2,720	2,390	2,530
2	1,440	2,570	3,710	2,070	3,040	2,600	5,670	14,700	2,890	2,680	2,400	2,650
3	1,470	2,870	3,640	2,070	3,540	2,610	6,320	13,200	2,880	1,710	2,430	1,850
4	1,500	2,880	2,600	2,320	4,550	2,620	6,700	12,300	2,880	1,300	2,430	1,720
5	1,460	2,880	2,040	2,960	5,120	2,670	7,780	11,400	2,740	1,940	2,430	2,600
6	1,430	2,870	2,050	2,950	5,530	2,670	8,330	10,400	2,600	3,770	2,430	2,320
7	1,500	2,860	3,190	2,940	5,910	2,740	8,230	8,280	2,620	5,410	2,830	2,660
8	1,600	2,830	3,880	2,930	5,050	2,710	8,100	6,970	2,550	4,710	3,340	2,650
9	1,630	2,810	4,480	2,180	4,820	3,090	7,870	6,400	2,550	4,390	3,320	2,640
10	1,600	2,820	4,730	2,250	4,280	3,340	7,120	5,900	2,620	3,830	3,300	2,570
11	1,590	2,900	4,640	2,190	3,860	3,880	7,050	4,790	2,450	3,480	3,300	2,540
12	1,580	3,730	4,010	2,160	3,410	4,290	7,060	3,840	2,580	3,550	3,300	2,580
13	1,520	3,670	3,670	2,110	3,150	4,580	6,900	3,650	2,590	3,550	3,280	2,580
14	1,390	3,610	3,660	2,080	3,130	4,740	6,730	3,660	2,600	3,510	3,270	2,640
15	1,390	3,210	3,120	2,070	2,860	5,070	6,560	3,370	2,630	3,550	3,250	2,640
16	1,410	2,820	3,630	2,110	2,650	5,820	5,870	2,900	2,640	3,530	2,720	2,580
17	1,410	2,530	3,420	2,050	2,670	5,950	5,210	2,990	2,640	2,970	2,400	2,400
18	1,320	2,320	2,740	1,990	2,670	6,690	5,410	2,940	2,650	2,680	2,470	2,380
19	1,430	2,320	2,050	2,050	2,640	7,740	5,980	2,970	2,660	2,730	2,580	2,640
20	1,430	2,520	2,020	2,120	2,620	8,520	6,250	2,780	2,680	2,760	2,600	2,670
21	1,390	2,790	2,040	2,140	2,620	8,730	5,640	3,170	2,660	2,780	2,470	2,670
22	1,170	2,300	2,030	2,170	2,670	8,430	5,210	5,700	2,580	2,770	2,470	2,670
23	902	2,000	2,040	2,800	2,510	7,570	5,660	8,170	2,670	2,470	2,450	2,650
24	909	1,990	1,580	3,190	2,360	7,140	6,930	8,440	2,350	2,330	2,450	2,340
25	1,160	1,980	1,560	3,500	2,530	6,570	7,320	7,930	2,700	2,270	2,450	2,100
26	1,780	2,040	1,920	3,700	2,610	6,280	7,830	7,350	2,690	2,380	2,410	2,010
27	1,790	2,060	2,030	3,690	2,610	6,290	7,340	6,190	2,710	2,380	2,520	2,450
28	1,660	2,490	2,030	3,650	2,600	6,310	7,980	5,550	2,710	2,380	2,490	2,560
29	1,420	4,190	2,030	3,620	------	6,150	15,500	5,090	2,710	2,380	2,650	2,670
30	1,920	4,620	2,030	3,580	------	5,710	18,700	4,600	2,710	2,370	2,610	2,690
31	2,100	------	2,030	3,260	------	5,530	------	4,590	------	2,390	2,620	------
TOTAL	45,841	83,580	88,750	80,730	95,060	159,650	222,860	207,820	80,660	91,670	84,060	74,650
MEAN	1,479	2,786	2,863	2,604	3,395	5,150	7,429	6,704	2,689	2,957	2,712	2,488
MAX	2,100	4,620	4,730	3,700	5,910	8,730	18,700	17,600	3,720	5,410	3,340	2,690
MIN	902	1,980	1,560	1,830	2,360	2,600	5,210	2,780	2,350	1,300	2,390	1,720

CAL YR 1972 TOTAL 944,136 MEAN 2,580 MAX 10,500 MIN 692
WTR YR 1973 TOTAL 1,315,331 MEAN 3,604 MAX 18,700 MIN 902

01021200 Dennys River at Dennysville, Maine

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, on right bank 100 ft (30 m) upstream from railroad bridge, 0.9 mi (1.4 km) upstream from Cathance Stream, and 1 mi (1.6 km) west of Dennysville.

DRAINAGE AREA.--92.4 sq mi (239.3 sq km).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.78 ft (16.700 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 188 cfs (5.32 cu m/s), 27.63 in/yr (702 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,930 cfs (111 cu m/s) Apr. 29 (gage height, 9.35 ft or 2.850 m); minimum 33 cfs (0.93 cu m/s) July 27, 28 (gage height, 0.73 ft or 0.223 m).
Period of record: Maximum discharge, 3,930 cfs (111 cu m/s) Apr. 29, 1973 (gage height, 9.35 ft or 2.850 m); minimum, 8.4 cfs (0.24 cu m/s) Oct. 1, 1957 (gage height, 0.28 ft or 0.085m).

REMARKS.--Records excellent except those for winter period, which are fair. Flow slightly regulated by dam at outlet of Meddybemps Lake 14 miles (22 km) upstream. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	288	298	357	180	184	376	995	288	186	39	58
2	198	228	270	583	194	182	405	712	258	236	65	67
3	149	270	240	511	898	177	522	648	238	254	224	61
4	120	415	220	415	1,050	186	726	501	220	200	400	61
5	108	338	220	332	802	256	762	568	206	182	322	65
6	114	260	220	270	520	268	782	532	202	242	222	80
7	144	219	1,090	228	335	254	631	499	212	214	152	169
8	544	196	858	208	282	275	514	466	270	171	116	133
9	442	230	628	208	245	463	427	430	295	150	96	96
10	288	424	511	198	215	475	380	442	285	136	88	75
11	210	385	388	190	195	403	552	526	268	144	86	63
12	173	295	350	185	175	382	493	541	265	161	84	55
13	177	238	305	180	202	511	382	496	400	157	78	49
14	188	212	350	175	204	514	322	442	362	152	74	44
15	200	204	310	170	186	430	308	365	290	161	70	42
16	200	190	260	170	194	391	328	318	246	152	65	41
17	192	175	240	165	194	452	394	340	432	137	64	39
18	184	165	230	165	196	1,120	457	310	382	129	60	40
19	166	160	215	165	212	1,000	455	328	282	128	58	96
20	153	253	205	186	198	704	406	308	236	122	55	112
21	142	529	195	268	194	487	350	610	196	122	56	90
22	135	400	190	295	196	365	338	1,550	180	122	58	70
23	137	250	185	451	212	312	379	1,020	210	116	56	80
24	158	214	180	684	212	302	370	645	214	114	52	84
25	166	194	180	589	202	330	328	448	188	92	49	72
26	161	328	180	445	194	391	288	350	173	50	46	61
27	150	925	175	322	182	430	262	305	175	36	46	55
28	144	666	170	260	190	373	1,010	280	186	35	64	49
29	226	484	170	224	------	325	3,350	388	214	40	61	46
30	484	352	170	186	------	312	1,810	421	204	40	52	43
31	415	------	169	180	------	338	------	332	------	35	48	------
TOTAL	6,533	9,485	9,372	8,965	8,249	12,592	18,129	16,216	7,577	4,216	3,006	2,096
MEAN	211	316	302	289	295	405	604	523	253	136	97.0	69.9
MAX	544	925	1,090	684	1,050	1,120	3,350	1,550	432	254	400	169
MIN	108	160	169	165	175	177	262	280	173	35	39	39
CFSM	2.28	3.42	3.27	3.13	3.19	4.39	6.54	5.66	2.74	1.47	1.05	.76
IN.	2.63	3.82	3.77	3.61	3.32	5.07	7.30	6.53	3.05	1.70	1.21	.84

CAL YR 1972 TOTAL 86,284 MEAN 236 MAX 1,550 MIN 20 CFSM 2.55 IN 34.74
WTR YR 1973 TOTAL 106,437 MEAN 292 MAX 3,350 MIN 35 CFSM 3.16 IN 42.85

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	0630	4.38	982	4-05	2200	4.12	878
12-07	1230	5.15	1,310	4-29	0630	9.35	3,930
2-03	1900	4.92	1,200	5-22	0300	6.05	1,750
3-18	1400	4.99	1,240				

01021500 Machias River at Whitneyville, Maine

LOCATION.--Lat 44°43'23", long 67°31'15", Washington County, on right bank 800 ft (244 m) downstream from highway bridge at Whitneyville.

DRAINAGE AREA.--457 sq mi (1,184 sq km).

PERIOD OF RECORD.--October 1905 to September 1921, September 1929 to current year. Monthly discharge only for some periods published in WSP 1301. Records for October 1903 to September 1905, published in WSP 97, 124, 165, and 241, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 37.22 ft (11.345 m) above mean sea level. Oct. 1, 1905 to Sept. 30, 1921, nonrecording gage on highway bridge at different datum.

AVERAGE DISCHARGE.--60 years, 930 cfs (26.34 cu m/s), 27.64 in/yr (702 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,500 cfs (326 cu m/s) Apr. 30 (gage height, 14.46 ft or 4.407 m); minimum daily, 250 cfs (7.08 cu m/s) Oct. 5.

Period of record: Maximum discharge, 14,800 cfs (419 cu m/s) May 29, 1961 (gage height 16.92 ft or 5.157 m); minimum daily, 3.5 cfs (0.099 cu m/s) Oct. 12, 1939, when flow was held back by cofferdam during reconstruction of highway bridge upstream.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Some regulation at low flow by sawmill above station.

REVISIONS (WATER YEARS).--WSP 971: Drainage area. WSP 1231: 1907-15, 1916-21 (M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	1,500	1,520	1,230	1,300	900	1,960	8,780	1,370	1,120	471	459
2	275	1,300	1,350	2,430	1,760	897	2,140	5,750	1,210	1,140	592	472
3	260	1,450	1,210	2,680	3,030	890	2,510	4,210	1,060	1,130	1,410	485
4	255	1,650	1,120	2,370	4,610	861	3,120	3,410	961	976	2,890	469
5	250	1,500	1,050	1,970	4,590	802	3,360	3,030	958	900	2,480	483
6	310	1,250	1,200	1,450	3,780	914	3,690	2,880	998	1,610	1,830	507
7	437	1,100	4,000	1,100	2,760	929	3,450	2,700	1,090	2,390	1,410	579
8	1,100	970	3,580	1,030	2,000	1,020	3,020	2,470	1,170	1,940	1,160	648
9	1,140	1,150	3,390	990	1,600	1,890	2,660	2,160	1,100	1,400	979	577
10	1,040	1,600	3,020	940	1,400	2,390	2,400	2,230	990	1,110	884	504
11	722	1,450	2,470	915	1,300	2,150	2,740	2,610	926	1,000	895	463
12	562	1,230	2,120	890	1,230	2,000	2,810	2,410	860	1,150	1,030	436
13	502	1,080	1,770	860	1,200	2,400	2,470	2,170	1,030	1,240	942	410
14	526	980	1,920	840	1,180	2,480	2,140	1,910	1,340	1,120	773	382
15	536	920	1,770	825	1,150	2,300	1,900	1,630	1,180	1,120	635	368
16	557	870	1,540	810	1,110	2,200	1,780	1,550	1,020	1,120	574	356
17	585	820	1,420	800	1,090	2,310	1,920	1,770	1,290	1,010	546	341
18	550	790	1,300	785	1,080	4,170	2,150	1,580	1,350	889	574	330
19	514	780	1,230	789	1,070	4,920	2,290	1,570	1,120	813	596	480
20	472	1,100	1,150	826	1,060	4,530	2,290	1,540	1,000	762	525	804
21	498	2,100	1,070	1,280	1,050	3,660	2,180	2,070	873	704	478	685
22	520	1,550	1,030	1,530	1,040	2,950	2,070	4,280	822	704	496	556
23	621	1,150	970	2,080	681	2,390	2,170	3,830	1,540	728	550	529
24	650	1,000	940	3,170	682	2,340	2,290	2,890	2,030	825	552	543
25	660	890	905	3,320	626	2,190	2,230	2,220	1,550	636	522	543
26	630	1,500	890	2,800	883	2,240	2,040	1,780	1,170	555	502	512
27	590	3,650	870	2,220	896	2,350	1,830	1,520	1,090	503	485	495
28	560	2,850	850	1,550	900	2,280	3,140	1,360	1,330	501	478	473
29	1,100	2,200	840	1,200	------	2,070	9,030	1,680	1,320	491	515	435
30	1,950	1,800	830	1,090	------	1,920	11,200	1,900	1,250	480	521	362
31	1,800	------	820	1,130	------	1,900	------	1,570	------	469	492	------
TOTAL	20,462	42,180	48,145	45,900	45,258	67,243	88,980	81,460	34,998	30,536	26,787	14,686
MEAN	660	1,406	1,553	1,481	1,616	2,169	2,966	2,628	1,167	985	864	490
MAX	1,950	3,650	4,000	3,320	4,610	4,920	11,200	8,780	2,030	2,390	2,890	804
MIN	250	780	820	785	681	802	1,780	1,360	822	469	471	330
CFSM	1.44	3.08	3.40	3.24	3.54	4.75	6.49	5.75	2.55	2.16	1.89	1.07
IN.	1.67	3.43	3.92	3.74	3.68	5.47	7.24	6.63	2.85	2.49	2.18	1.20

CAL YR 1972 TOTAL 442,202 MEAN 1,208 MAX 6,670 MIN 184 CFSM 2.64 IN 36.00
WTR YR 1973 TOTAL 546,635 MEAN 1,498 MAX 11,200 MIN 250 CFSM 3.28 IN 44.50

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	-	-	3,900	3-19	1100	9.06	4,970
12-07	-	-	4,300	4-06	1100	7.71	3,750
1-25	0700	7.32	3,420	4-30	0900	14.46	11,500
2-05	1500	8.73	4,670	5.22	1600	8.46	4,420

Note.--No gage-height record Oct. 24 to Dec. 8.

01022500 Narraguagus River at Cherryfield, Maine

LOCATION.--Lat 44°36'29", long 67°56'10", Washington County, on left bank 800 ft (244 m) upstream from railroad bridge at Cherryfield, and 0.7 mi (1.1 km) downstream from West Branch of Narraguagus River.

DRAINAGE AREA.--232 sq mi (601 sq km).

PERIOD OF RECORD.--February 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft (13.47 m) above mean sea level. Prior to July 1, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 488 cfs (13.82 cu m/s), 28.56 in/yr (725 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,340 cfs (180 cu m/s) Apr. 29 (gage height, 15.15 ft or 4.618 m); minimum, 139 cfs (3.94 cu m/s) Sept. 21 (gage height, 7.86 ft or 2.396 m).

Period of record: Maximum discharge, 10,400 cfs (295 cu m/s) May 28, 1961 (gage height, 17.40 ft or 5.304 m); minimum, 20 cfs (0.57 cu m/s) Sept. 22, 23, 1965.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1948 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	423	818	1,220	900	611	325	725	3,950	705	705	190	235
2	322	660	1,030	1,470	611	309	795	2,520	605	782	244	280
3	265	789	879	1,360	1,740	292	1,110	1,800	545	737	678	270
4	230	913	753	1,220	2,690	341	1,400	1,400	490	609	1,350	305
5	207	812	604	1,030	2,390	613	1,610	1,190	460	622	1,290	324
6	189	682	712	700	1,850	661	1,760	1,040	465	1,620	930	282
7	238	574	2,890	540	1,300	621	1,570	932	540	1,070	639	258
8	1,050	503	2,430	450	950	892	1,330	815	535	800	497	264
9	899	654	2,430	400	760	1,650	1,130	715	495	609	413	304
10	671	955	2,030	375	650	1,460	1,010	870	446	484	358	288
11	497	863	1,490	360	590	1,280	1,560	1,060	396	506	322	371
12	408	746	1,090	355	540	1,290	1,370	913	377	611	322	405
13	421	634	1,030	350	510	1,570	1,090	795	518	569	316	331
14	440	556	1,020	345	485	1,520	903	688	570	485	292	264
15	420	531	832	340	460	1,340	788	611	561	445	263	226
16	395	468	647	335	435	1,370	719	694	503	433	246	205
17	401	446	590	330	420	1,630	709	763	809	393	232	176
18	380	413	550	330	420	3,430	757	707	735	346	215	165
19	334	386	525	325	420	2,810	822	856	581	328	211	159
20	301	690	500	370	405	2,170	844	815	472	306	214	152
21	273	1,430	475	550	380	1,600	820	1,210	405	295	189	191
22	257	1,190	460	750	384	1,230	799	1,990	413	304	175	423
23	257	904	445	1,350	410	1,010	836	1,750	960	280	151	394
24	320	724	430	1,890	411	912	868	1,410	1,070	248	145	333
25	331	610	415	1,690	412	890	853	1,100	812	228	165	290
26	313	913	405	1,420	398	918	771	894	605	222	150	337
27	293	2,340	395	1,120	375	964	677	757	619	214	145	321
28	277	2,010	385	878	355	900	2,100	664	634	210	165	279
29	574	1,780	375	716	------	809	5,880	926	643	201	175	243
30	1,050	1,470	365	635	------	740	5,870	977	654	195	165	223
31	982	------	360	606	------	717	------	800	------	187	190	------
TOTAL	13,418	26,484	27,762	23,490	21,362	36,264	41,477	35,612	17,623	15,044	11,037	8,298
MEAN	433	883	896	758	763	1,170	1,383	1,149	587	485	356	277
MAX	1,050	2,340	2,890	1,890	2,690	3,430	5,880	3,950	1,070	1,620	1,350	423
MIN	189	386	360	325	355	292	577	611	377	187	145	152
CFSM	1.87	3.81	3.86	3.27	3.29	5.04	5.96	4.95	2.53	2.09	1.53	1.19
IN.	2.15	4.25	4.45	3.77	3.43	5.81	6.65	5.71	2.83	2.41	1.77	1.33

CAL YR 1972 TOTAL 245,917 MEAN 672 MAX 4,490 MIN 78 CFSM 2.90 IN 39.43
WTR YR 1973 TOTAL 277,871 MEAN 761 MAX 5,880 MIN 145 CFSM 3.28 IN 44.56

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	1000	12.05	2,460	3-18	0900	13.23	3,690
12-07	1100	12.76	3,180	4-29	2400	15.15	6,340
2-03	2200	12.65	3,060	5-22	0400	11.60	2,050

01023000 West Branch Union River at Amherst, Maine

LOCATION.--Lat 44°50'25", long 68°22'22", Hancock County, on right bank 200 ft (61 m) upstream from site of old tannery dam, 0.6 mi (1.0 km) upstream from Indian Camp Brook, and 0.7 mi (1.1 km) northwest of Amherst.

DRAINAGE AREA.--148 sq mi (383 sq km).

PERIOD OF RECORD.--July 1909 to September 1919, July 1929 to current year. Published as Union River at Amherst, October 1910 to September 1913.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map. July 1909 to September 1919, nonrecording gage at highway bridge 1 mi (1.6 km) downstream at different datum.

AVERAGE DISCHARGE.--54 years, 264 cfs (7.476 cu m/s), 24.22 in/yr (615 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,270 cfs (64.3 cu m/s) Apr. 29 (gage height 7.62 ft or 2.323 m); minimum discharge, 52 cfs (1.47 cu m/s) Oct. 7 (gage height, 3.47 ft or 1.058 m).

Period of record: Maximum discharge, 4,140 cfs (117 cu m/s) Apr. 13, 1940 (gage height, 9.58 ft or 2.920 m); maximum gage height, 10.41 ft (3.173 m) Mar. 9, 1942 (ice jam); minimum discharge, 2.6 cfs (0.074 cu m/s) July 28, 1965 (gage height, 2.75 ft or 0.838 m).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: 1935. WSP 821: Drainage area. WSP 1231: 1912-15, 1916-19 (M). WSP 1301: 1901-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	294	618	660	425	295	580	1,760	385	497	119	147
2	59	274	568	760	430	285	632	1,670	353	539	141	167
3	58	322	519	650	1,450	280	707	1,520	311	499	346	167
4	57	366	488	560	1,570	320	764	1,320	276	461	436	192
5	56	360	442	460	1,300	440	806	1,130	247	612	474	209
6	54	345	455	400	1,100	465	845	927	224	1,330	466	198
7	61	315	796	360	900	500	836	764	213	1,590	427	205
8	140	285	829	335	760	660	802	643	202	1,610	383	183
9	151	292	722	320	660	880	759	555	185	1,490	338	160
10	160	347	595	310	580	940	714	506	177	1,270	308	140
11	156	354	540	305	520	860	755	470	160	1,060	322	123
12	146	356	500	295	475	700	698	450	164	849	320	111
13	141	339	465	290	440	640	625	423	262	669	316	99
14	127	315	450	285	400	615	567	393	282	554	298	90
15	127	303	420	280	370	600	519	363	284	471	264	84
16	116	274	395	275	355	645	492	384	271	413	233	79
17	111	247	375	270	340	730	496	387	340	362	208	73
18	104	227	360	270	335	1,080	528	376	336	316	185	80
19	96	209	350	265	325	1,060	561	393	314	281	167	160
20	91	297	330	265	320	1,000	579	384	275	248	150	146
21	84	454	320	430	315	940	583	437	238	227	134	149
22	80	427	310	650	320	880	611	558	220	205	122	151
23	83	399	300	910	325	820	660	585	222	183	112	170
24	95	343	290	1,060	320	770	664	572	203	161	103	164
25	99	309	280	930	315	730	642	546	186	145	92	157
26	102	387	275	810	310	712	615	513	172	131	86	144
27	103	662	270	670	305	690	581	472	164	121	81	130
28	103	634	265	570	300	639	983	431	203	113	101	120
29	158	691	260	500	------	599	2,000	446	269	106	104	107
30	286	648	255	465	------	574	1,780	438	309	112	99	98
31	300	------	250	440	------	569	------	409	------	108	105	------
TOTAL	3,568	11,075	13,292	15,050	15,565	20,918	22,384	20,225	7,447	16,733	7,040	4,203
MEAN	115	369	429	485	556	675	746	652	248	540	227	140
MAX	300	691	829	1,060	1,570	1,080	2,000	1,760	385	1,610	474	209
MIN	54	209	250	265	300	280	492	363	160	106	81	73
CFSM	.78	2.49	2.90	3.28	3.76	4.56	5.04	4.41	1.68	3.65	1.53	.95
IN.	.90	2.78	3.34	3.78	3.91	5.26	5.63	5.08	1.87	4.21	1.77	1.06

CAL YR 1972 TOTAL 126,022 MEAN 344 MAX 1,900 MIN 30 CFSM 2.32 IN 31.68
WTR YR 1973 TOTAL 157,500 MEAN 432 MAX 2,000 MIN 54 CFSM 2.92 IN 39.59

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-24	-	-	1,100	4-29	0400	7.62	2,270
2-04	-	-	1,600	7-08	0100	6.80	1,630
3-18	-	-	1,100				

01024200 Garland Brook near Mariaville, Maine

LOCATION.--Lat 44°43'17", long 68°24'40", Hancock County, on left bank 22 ft (6.7 m) upstream from State Highway 181, 1.2 mi (1.9 km) upstream from mouth, and 1.5 mi (2.4 km) north of Mariaville.

DRAINAGE AREA.--9.80 sq mi (25.38 sq km).

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 125 ft (38 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 21.0 cfs (0.595 cu m/s), 29.10 in/yr (739 mm/yr).

EXTREMES.--Current year: Maximum discharge, 636 cfs (18.0 cu m/s) Apr. 29 (gage height, 9.91 ft or 3.021 m); minimum, 2.4 cfs (0.068 cu m/s) Aug. 27, 28 (gage height, 2.78 ft or 0.847 m).
Period of record: Maximum discharge, 1,230 cfs (34.8 cu m/s) Dec. 27, 1969 (gage height, 13.47 ft or 4.106 m); minimum, 0.24 cfs (0.007 cu m/s) Sept. 22-25, 1965.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	24	42	69	19	11	56	69	24	185	12	8.0
2	7.2	21	36	84	25	11	64	50	20	108	22	10
3	5.5	48	29	47	227	11	83	41	17	54	121	6.4
4	4.4	48	25	31	145	15	85	38	15	35	54	26
5	3.9	30	22	26	87	32	100	35	14	77	28	25
6	3.7	23	33	22	53	32	93	30	14	117	17	16
7	8.0	20	188	19	42	23	75	20	19	46	13	12
8	58	18	82	16	35	34	59	23	19	33	9.6	5.5
9	26	40	64	14	32	89	49	22	15	24	8.0	4.7
10	14	53	53	13	26	67	49	33	12	19	7.6	4.5
11	9.6	33	39	13	24	47	80	34	10	17	10	4.0
12	8.0	25	29	12	21	49	55	34	9.7	18	9.4	3.6
13	8.7	21	31	12	20	83	40	28	17	15	7.4	3.6
14	9.0	19	35	12	19	78	34	23	25	14	6.3	3.6
15	9.1	20	26	12	18	60	33	20	14	14	5.4	3.5
16	9.1	19	24	11	17	78	35	42	14	14	5.4	3.4
17	8.3	17	23	11	16	108	37	36	39	10	5.4	3.3
18	7.2	16	21	11	15	273	36	28	21	8.9	4.8	15
19	6.2	14	20	11	15	130	32	60	14	9.4	4.0	29
20	5.8	80	19	20	14	89	26	39	10	8.2	3.9	13
21	5.7	115	17	29	13	64	24	87	9.0	9.5	3.6	8.6
22	5.2	50	17	30	14	51	28	115	11	8.9	3.1	8.1
23	6.3	28	17	79	16	43	31	74	21	6.9	3.0	17
24	14	26	16	94	18	45	26	48	15	5.8	2.9	11
25	11	24	16	58	15	54	22	37	11	5.2	2.6	7.6
26	9.5	101	15	44	13	67	19	31	9.7	4.9	2.5	5.9
27	8.3	167	15	33	12	66	19	27	10	5.0	2.4	4.9
28	7.4	72	14	28	12	51	269	25	38	5.2	21	4.6
29	38	79	12	24	------	45	363	40	51	4.6	14	4.2
30	82	52	12	21	------	46	115	33	44	5.2	6.6	3.4
31	39	------	13	20	------	52	------	26	------	4.7	4.7	------
TOTAL	448.1	1,303	1,005	926	983	1,904	2,037	1,248	562.4	892.4	420.6	275.4
MEAN	14.5	43.4	32.4	29.9	35.1	61.4	67.9	40.3	18.7	28.8	13.6	9.18
MAX	82	167	188	94	227	273	363	115	51	185	121	29
MIN	3.7	14	12	11	12	11	19	20	9.0	4.6	2.4	3.3
CFSM	1.48	4.43	3.31	3.05	3.58	6.27	6.93	4.11	1.91	2.94	1.39	.94
IN.	1.70	4.95	3.81	3.52	3.73	7.23	7.73	4.74	2.13	3.39	1.60	1.05

CAL YR 1972 TOTAL 10,393.6 MEAN 28.4 MAX 259 MIN 1.4 CFSM 2.90 IN 39.45
WTR YR 1973 TOTAL 12,004.9 MEAN 32.9 MAX 363 MIN 2.4 CFSM 3.36 IN 45.57

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	1945	6.34	194	4-29	0030	9.91	636
11-26	2130	7.31	295	5-21	1815	5.89	153
12-07	0545	6.88	248	7-01	1115	7.45	310
2-03	0845	7.23	286	8-03	1115	6.32	192
3-18	0500	7.69	338				

01029500 East Branch Penobscot River at Grindstone, Maine

LOCATION.--Lat 45°43'49", long 68°35'22", Penobscot County, on left bank 500 ft (152 m) downstream from Bangor & Aroostook Railroad bridge, 0.5 mi (0.8 km) south of Grindstone, and 9.5 mi (15.3 km) upstream from confluence with West Branch Penobscot River.

DRAINAGE AREA.--1,090 sq mi (2,823 sq km), including 249 sq mi (645 sq km) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--October 1902 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 294.74 ft (89.837 m) above mean sea level. Prior to June 30, 1929, nonrecording gage on railroad bridge at same datum.

AVERAGE DISCHARGE.--71 years, 1,918 cfs (54.32 cu m/s), 23.90 in/yr (607 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 30,600 cfs (867 cu m/s) Apr. 29 (gage height, 14.71 ft or 4.484 m); minimum daily, 656 cfs (18.6 cu m/s) Aug. 27.

Period of record: Maximum discharge, 37,000 cfs (1,050 cu m/s) Apr. 30, 1923 (gage height, 16.9 ft or 5.15 m, site then in use, present datum); minimum daily (1914-73), 77 cfs (2.18 cu m/s) Nov. 19, 1924.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (see sta 01028500 and sta 01029000, page 52). Final regulation at Grand Lake Dam 35 mi (56 km) upstream. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 501: Drainage area. WSP 1301: 1907-12, 1914-29 (M). WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,640	1,780	1,260	1,350	1,750	2,090	4,530	17,500	4,520	2,110	778	965
2	1,590	1,470	1,450	1,370	1,720	2,080	4,860	14,500	4,470	2,590	939	1,020
3	1,480	1,530	1,650	1,390	2,000	2,050	5,030	12,600	4,040	1,850	1,340	1,010
4	1,420	1,860	2,020	1,360	4,200	2,000	5,120	11,800	3,680	2,020	1,500	1,100
5	1,380	1,760	2,060	1,300	4,400	1,950	4,940	10,700	3,420	5,020	1,680	1,350
6	1,060	1,600	2,090	1,250	4,150	1,900	4,800	9,130	3,200	7,540	1,370	1,250
7	946	1,670	2,820	1,200	3,600	1,850	4,580	7,620	2,800	7,590	1,240	1,530
8	2,300	1,670	3,450	1,170	3,200	1,850	4,350	7,070	2,590	6,780	1,080	1,390
9	2,280	1,760	2,900	1,130	2,850	2,250	4,120	6,430	2,140	6,120	980	1,160
10	1,690	2,470	2,880	1,100	2,550	2,500	3,930	6,150	2,160	5,420	971	1,060
11	1,420	2,440	2,960	1,060	2,300	2,400	3,780	5,930	2,020	3,750	1,560	998
12	1,300	2,200	2,920	1,050	2,100	2,400	3,330	5,570	1,830	2,420	1,880	963
13	1,110	2,050	2,590	1,030	2,000	2,800	3,020	5,320	1,790	2,180	1,550	1,110
14	1,020	2,090	2,660	1,020	1,850	3,300	2,920	4,940	1,740	1,800	1,280	1,450
15	1,010	2,110	2,710	990	1,750	3,180	2,880	4,470	1,750	1,540	1,120	1,460
16	1,010	1,990	2,530	980	1,670	3,150	3,200	3,440	1,740	1,410	1,030	1,450
17	965	1,880	2,480	970	1,600	3,600	4,000	3,510	2,110	1,300	980	1,440
18	927	1,840	2,470	960	1,500	5,500	6,140	3,230	2,070	1,200	917	1,460
19	886	1,350	2,430	960	1,450	7,050	7,870	4,680	1,770	1,130	861	2,120
20	857	1,250	2,400	990	1,530	6,590	8,290	5,530	1,500	1,070	827	2,110
21	830	1,590	2,400	1,050	1,700	6,000	7,700	4,860	1,250	1,010	806	1,860
22	815	1,560	2,250	1,170	1,690	5,400	8,170	9,290	1,220	947	869	1,730
23	839	1,350	2,000	1,400	1,800	5,160	12,200	9,450	1,160	885	879	1,700
24	1,090	1,290	1,800	2,500	2,000	5,010	15,900	8,070	1,100	839	800	1,670
25	1,480	1,350	1,660	2,650	1,980	4,890	15,400	7,030	1,050	798	746	1,610
26	1,520	1,260	1,570	2,600	1,900	4,980	13,200	6,320	1,000	803	714	1,560
27	1,360	2,200	1,530	2,450	1,850	5,070	10,800	5,380	962	752	656	1,530
28	1,230	2,530	1,480	2,250	1,900	4,830	13,600	3,830	1,040	761	687	1,500
29	1,300	2,260	1,430	2,060	-------	4,540	27,200	4,030	1,230	762	974	1,290
30	1,570	1,810	1,400	1,930	-------	3,890	24,300	4,590	1,360	860	1,020	1,200
31	1,810	-------	1,370	1,820	-------	3,910	-------	4,220	-------	811	942	-------
TOTAL	40,135	53,970	67,620	44,510	62,990	114,170	240,160	217,190	62,712	74,068	32,976	42,046
MEAN	1,295	1,799	2,181	1,436	2,250	3,683	8,005	7,006	2,090	2,389	1,064	1,402
MAX	2,300	2,530	3,450	2,650	4,400	7,050	27,200	17,500	4,520	7,590	1,880	2,120
MIN	815	1,250	1,260	960	1,450	1,850	2,880	3,230	962	752	656	963
MEAN*	1,324	1,978	2,332	1,415	2,210	3,414	9,051	7,243	2,090	2,235	959	585
CFSM*	1.21	1.81	2.14	1.30	2.03	3.13	8.30	6.64	1.92	2.05	.88	.54
IN. *	1.40	2.02	2.47	1.50	2.11	3.61	9.26	7.66	2.14	2.36	1.01	.60

CAL YR 1972 TOTAL 902,465 MEAN 2,466 MAX 12,600 MIN 565 MEAN* 2,526 CFSM* 2.32 IN* 31.55
WTR YR 1973 TOTAL 1,052,547 MEAN 2,884 MAX 27,200 MIN 656 MEAN* 2,903 CFSM* 2.66 IN* 36.14

*Adjusted for change in contents in Chamberlain, Telos, Second, and Grand Lakes, and Round Pond.

01030000 Penobscot River near Mattawamkeag, Maine

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, on left bank 700 ft (213 m) downstream from Mattaseunk Dam and powerhouse, 1.3 mi (2.1 km) upstream from Mattaseunk Brook, and 4.5 mi (7.2 km) upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 sq mi (8,692 sq km), including 249 sq mi (645 sq km) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 191.72 ft (58.436 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 5,662 cfs (160.3 cu m/s), 22.91 in/yr (582 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 66,000 cfs (1,870 cu m/s) Apr. 29 (gage height, 16.89 ft or 5.148 m, backwater from Mattawamkeag River); minimum daily, 3,500 cfs (99.1 cu m/s) Oct. 21-23, July 25.
Period of record: Maximum discharge, 66,000 cfs (1,870 cu m/s) Apr. 29, 1973 (gage height, 16.89 ft or 5.148 m, backwater from Mattawamkeag River); minimum daily, 1,430 cfs (40.5 cu m/s) Aug. 17, 1941.

REMARKS.--Records good. Flow regulated by many reservoirs above station (see p. 52).

REVISIONS.--WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,550	5,200	5,300	5,150	5,600	6,150	9,400	51,600	14,700	7,000	4,200	5,100
2	5,200	5,100	5,100	5,200	6,200	6,100	9,900	45,000	14,700	7,500	4,000	4,000
3	4,900	5,200	5,200	5,150	7,500	6,400	10,300	40,600	13,800	6,550	4,700	3,700
4	5,000	5,650	5,400	5,200	9,600	6,400	10,500	36,000	9,500	5,400	4,850	4,300
5	4,600	5,950	5,000	5,250	9,200	6,300	10,300	32,000	6,300	8,800	5,200	4,500
6	4,400	6,200	5,900	5,400	8,500	6,200	10,000	28,000	6,000	16,000	4,700	5,500
7	4,200	6,050	6,600	4,700	7,600	7,100	9,800	26,700	6,700	15,000	4,300	6,400
8	5,600	5,800	7,000	4,400	7,200	7,350	9,500	24,200	6,900	12,800	4,100	5,000
9	6,000	5,900	6,500	4,400	7,000	7,400	9,200	19,700	6,600	12,500	3,900	4,900
10	4,900	6,800	6,300	4,650	6,800	7,300	8,900	18,400	6,650	12,100	4,400	4,850
11	4,650	7,000	6,300	5,000	6,600	7,350	8,650	13,900	6,550	9,300	5,500	4,800
12	4,700	6,400	5,800	4,700	6,500	7,700	7,800	16,200	6,400	6,600	5,900	4,600
13	4,800	6,350	5,800	4,900	6,300	8,300	7,700	17,100	6,600	5,500	4,900	4,500
14	4,100	6,200	5,800	4,750	6,400	8,450	7,600	16,700	6,500	6,600	4,750	5,200
15	4,500	6,000	6,000	5,000	6,250	8,200	7,900	16,000	6,300	6,350	4,600	5,000
16	4,200	5,800	6,250	4,850	6,000	8,400	8,000	15,700	6,700	6,100	4,600	5,300
17	5,050	5,700	6,200	4,700	5,900	9,600	9,500	15,400	6,850	5,300	4,500	4,900
18	5,100	5,550	5,900	4,750	5,800	11,000	11,200	9,180	7,000	5,550	4,400	5,050
19	4,100	5,300	5,800	4,650	5,800	12,200	12,600	8,330	6,500	6,000	4,300	5,600
20	3,800	5,100	5,500	4,600	6,000	11,000	13,700	12,800	5,800	6,300	4,200	5,600
21	3,500	5,400	5,750	4,700	5,800	10,300	13,000	13,800	5,600	4,850	4,100	5,500
22	3,500	5,000	5,800	5,100	6,100	9,400	12,500	23,400	5,500	4,000	4,300	5,400
23	3,500	5,050	5,700	5,700	6,200	8,500	18,000	25,100	5,450	4,700	4,600	5,300
24	4,750	4,700	5,700	6,500	6,200	8,700	27,100	27,300	5,400	3,950	4,250	5,350
25	5,150	5,100	5,400	7,000	6,400	8,800	28,100	24,300	5,500	3,500	4,500	5,250
26	5,000	5,100	5,100	7,000	6,350	8,900	26,500	23,200	5,400	4,100	4,250	5,000
27	5,050	5,800	5,500	6,800	6,200	9,000	26,700	20,000	5,200	3,600	5,000	5,300
28	5,000	6,600	5,400	6,600	6,200	9,000	32,800	17,200	5,600	3,550	3,700	5,000
29	5,200	6,200	5,100	6,550	------	8,900	52,900	17,800	5,900	3,700	4,700	5,300
30	5,150	5,700	5,050	6,300	------	8,900	62,600	19,400	5,850	3,900	4,800	5,000
31	5,450	------	5,050	5,900	------	9,100	------	13,300	------	3,700	4,900	------
TOTAL	146,600	171,900	177,200	165,550	186,200	258,400	492,650	688,310	212,450	210,800	141,100	151,200
MEAN	4,729	5,730	5,716	5,340	6,650	8,335	16,420	22,200	7,082	6,800	4,552	5,040
MAX	6,000	7,000	7,000	7,000	9,600	12,200	62,600	51,600	14,700	16,000	5,900	6,400
MIN	3,500	4,700	5,000	4,400	5,600	6,100	7,600	8,330	5,200	3,500	3,700	3,700
MEAN*	2,977	5,996	4,720	3,680	6,049	8,694	25,720	22,530	6,413	5,114	3,318	2,906
CFSM*	.89	1.79	1.41	1.10	1.80	2.59	7.66	6.71	1.91	1.52	.99	.87
IN. *	1.02	2.00	1.63	1.27	1.87	2.99	8.55	7.74	2.13	1.75	1.14	.97

CAL YR 1972 TOTAL 2,358,970 MEAN 6,445 MAX 20,700 MIN 2,680 MEAN* 7,009 CFSM* 2.09 IN* 28.44
WTR YR 1973 TOTAL 3,002,360 MEAN 8,226 MAX 62,600 MIN 3,500 MEAN* 8,172 CFSM* 2.44 IN* 33.06

*Adjusted for change in contents in reservoirs in East and West Branches of Penobscot River.

01030500 Mattawamkeag River near Mattawamkeag, Maine

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, on right bank at Gordon Lower Falls, 1.0 mi (1.6 km) upstream from Mattakeunk Stream, 3.7 mi (6.0 km) upstream from Mattawamkeag, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--1,418 sq mi (3,673 sq km).

PERIOD OF RECORD.--October 1934 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 230 ft (70 m), from topographic map.

AVERAGE DISCHARGE.--39 years, 2,441 cfs (69.1 cu m/s), 23.38 in/yr (594 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,800 cfs (674 cu m/s) May 1 (gage height, 13.26 ft or (4.042 m); minimum, 395 cfs (11.2 cu m/s) Oct. 1 (gage height, 0.85 ft or 0.259 m).
Period of record: Maximum discharge, 29,200 cfs (827 cu m/s) Mar. 23, 1936 (gage height, 15.34 ft or 4.676 m); minimum, 38 cfs (1.08 cu m/s) Sept. 19, 1952.

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS.--WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444	2,040	4,220	1,750	3,430	1,500	6,790	23,600	4,250	1,170	498	612
2	512	1,880	3,620	1,800	3,120	1,420	7,410	23,100	4,110	1,400	506	700
3	526	2,000	3,560	1,920	3,360	1,390	8,050	21,600	3,960	1,570	622	738
4	510	2,620	3,330	2,050	4,220	1,300	8,660	19,300	3,660	1,450	1,460	844
5	476	3,110	3,130	2,040	4,910	1,290	8,960	16,600	3,250	1,720	3,050	1,070
6	448	3,150	3,030	1,980	5,620	1,330	8,990	13,800	2,840	3,800	2,980	1,160
7	443	2,970	3,660	1,920	5,870	1,290	9,860	11,500	2,530	5,840	2,680	1,700
8	639	2,740	4,320	1,870	5,720	1,370	8,500	9,310	2,320	7,170	2,270	2,000
9	1,090	2,700	4,560	1,780	5,330	1,530	7,910	7,530	2,140	7,470	1,870	1,830
10	1,390	3,830	4,700	1,720	5,120	1,840	7,290	6,200	2,030	6,840	1,700	1,530
11	1,380	4,770	4,660	1,650	4,800	2,180	6,660	5,200	1,980	5,640	2,310	1,280
12	1,270	4,840	4,430	1,570	4,460	2,550	5,050	4,570	1,900	4,310	3,820	1,160
13	1,150	4,550	4,040	1,500	3,920	3,000	5,440	4,410	1,770	3,400	4,300	964
14	1,040	4,160	3,700	1,400	3,500	3,500	4,910	4,330	1,650	2,830	3,730	832
15	981	3,770	3,450	1,330	3,110	4,050	4,540	4,060	1,480	2,420	3,020	744
16	928	3,430	3,200	1,230	2,820	4,650	4,480	3,840	1,340	2,110	2,460	672
17	891	3,020	3,000	1,150	2,630	5,200	5,120	3,940	1,350	1,850	2,040	622
18	841	2,710	2,850	1,080	2,470	6,140	6,760	4,020	1,380	1,620	1,730	590
19	787	2,420	2,700	1,050	2,350	7,200	9,370	3,990	1,320	1,420	1,540	796
20	734	2,310	2,570	1,060	2,250	7,970	12,000	3,840	1,180	1,260	1,330	1,160
21	680	2,640	2,470	1,210	2,090	8,640	13,500	3,830	1,040	1,140	1,180	1,330
22	631	2,810	2,370	1,550	1,950	8,760	14,500	4,940	964	1,020	1,160	1,280
23	621	2,730	2,270	1,910	1,850	8,510	15,500	6,700	932	900	1,140	1,210
24	701	2,530	2,180	2,450	1,790	7,810	16,500	7,940	880	802	1,040	1,120
25	986	2,420	2,100	3,010	1,780	7,270	17,300	8,030	814	727	912	1,020
26	1,420	2,340	2,020	3,510	1,740	7,130	17,500	7,470	744	661	826	932
27	1,670	2,830	1,960	3,720	1,660	6,890	17,200	6,540	694	600	738	844
28	1,690	3,490	1,900	3,870	1,560	6,810	17,100	5,520	688	556	694	778
29	1,730	4,150	1,850	3,870	------	6,660	20,200	4,800	784	532	661	705
30	2,010	4,480	1,800	3,700	------	6,490	23,000	4,580	1,020	524	628	650
31	2,130	------	1,770	3,600	------	6,480	------	4,480	------	507	584	------
TOTAL	30,749	93,440	95,420	64,250	93,430	142,150	319,050	259,470	55,000	73,259	53,479	30,843
MEAN	992	3,115	3,078	2,073	3,337	4,585	10,640	8,370	1,833	2,363	1,725	1,028
MAX	2,130	4,840	4,700	3,870	5,870	8,760	23,000	23,600	4,250	7,470	4,300	2,000
MIN	443	1,880	1,770	1,050	1,560	1,290	4,480	3,830	688	507	498	590
CFSM	.70	2.20	2.17	1.46	2.35	3.23	7.50	5.90	1.29	1.67	1.22	.73
IN.	.81	2.45	2.50	1.69	2.45	3.73	8.37	6.81	1.44	1.92	1.40	.81

CAL YR 1972 TOTAL 1,000,345 MEAN 2,733 MAX 18,600 MIN 244 CFSM 1.93 IN 26.24
WTR YR 1973 TOTAL 1,310,540 MEAN 3,591 MAX 23,600 MIN 443 CFSM 2.53 IN 34.38

01031500 Piscataquis River near Dover-Foxcroft, Maine

LOCATION.--Lat 45°10'31", long 69°18'55", Piscataquis County, on left bank 30 ft (9 m) downstream from Lows Bridge, 1.0 mi (1.6 km) upstream from Black Stream and 4.7 mi (7.6 km) upstream from Dover-Foxcroft.

DRAINAGE AREA.--297 sq mi (769 sq km).

PERIOD OF RECORD.--August 1902 to current year.

GAGE.--Water-stage recorder. Datum of gage is 358.1 ft (109.15 m) above mean sea level. Prior to July 20, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--71 years, 595 cfs (16.85 cu m/s), 27.21 in/yr (691 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,500 cfs (297 cu m/s) Apr. 28 (gage height, 11.33 ft or 3.453 m); minimum, 72 cfs (2.04 cu m/s) Oct. 7 (gage height, 1.97 ft or 0.600 m).
Period of record: Maximum discharge, 22,800 cfs (646 cu m/s) Nov. 4, 1966 (gage height, 17.89 ft or 5.453 m); minimum, 5 cfs (0.14 cu m/s) Aug. 6, 1905, Nov. 22, 1908.

REMARKS.--Records excellent except those for winter period, which are fair. Low flow may be regulated by operation of mills above station. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 279: 1902. WSP 1171: Drainage area. WSP 1201: 1903-17, 1918-30 (M), 1934-35. WSP 1301: 1909 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	406	877	355	430	250	2,030	2,870	1,160	5,990	131	147
2	106	374	900	360	415	250	2,300	2,120	898	4,180	190	209
3	93	623	820	360	830	245	2,000	1,720	700	2,280	581	370
4	79	786	720	350	1,600	245	1,830	1,670	575	1,560	3,390	605
5	77	617	605	335	1,270	255	1,710	1,450	492	2,590	3,520	807
6	99	520	620	320	1,070	275	1,650	1,200	430	3,030	1,980	765
7	83	460	1,230	310	940	285	1,560	988	406	2,100	1,140	1,040
8	1,990	420	1,140	300	830	340	1,430	772	388	1,380	898	779
9	1,300	1,030	972	290	730	690	1,280	687	348	972	674	558
10	713	1,960	870	280	660	790	1,150	1,110	317	739	593	435
11	498	1,350	739	275	600	590	1,040	1,320	269	587	1,280	356
12	392	996	648	270	550	570	912	1,770	245	470	1,090	313
13	356	828	694	270	510	930	793	1,570	420	374	726	273
14	305	713	661	265	475	1,100	758	1,150	343	470	599	238
15	281	635	605	260	445	1,000	828	891	261	470	581	183
16	293	546	570	255	420	1,060	1,250	950	234	476	514	153
17	293	476	540	250	400	1,400	2,520	1,060	575	415	430	144
18	265	460	520	250	380	3,200	3,980	898	504	330	356	147
19	238	410	500	250	360	3,320	4,420	1,520	348	289	301	397
20	220	554	485	230	345	2,340	4,450	2,060	273	253	334	374
21	206	1,100	460	450	335	1,720	3,660	2,680	231	234	297	301
22	203	700	445	900	325	1,360	3,910	5,170	297	213	425	234
23	213	504	425	1,200	330	1,180	4,670	4,010	450	177	420	514
24	465	492	410	1,500	320	1,150	4,540	2,380	392	153	348	514
25	558	470	400	1,000	305	1,300	3,550	1,720	317	134	277	379
26	492	908	385	760	280	1,710	2,760	1,360	258	123	234	305
27	415	3,200	375	650	265	1,790	2,290	1,120	227	123	196	245
28	361	1,970	365	570	255	1,500	7,720	958	348	128	203	209
29	435	1,760	355	510	------	1,360	8,770	1,220	548	144	209	180
30	605	1,240	350	475	------	1,360	4,580	1,170	1,760	177	177	162
31	498	------	350	445	------	1,660	------	988	------	147	159	------
TOTAL	12,227	26,510	19,036	14,345	15,645	35,225	84,341	50,552	14,014	30,708	22,253	11,336
MEAN	394	884	614	463	559	1,136	2,811	1,631	467	991	718	378
MAX	1,990	3,200	1,230	1,500	1,600	3,320	8,770	5,170	1,760	5,990	3,520	1,040
MIN	77	374	350	250	255	245	758	687	227	123	131	144
CFSM	1.33	2.98	2.07	1.56	1.88	3.82	9.46	5.49	1.57	3.34	2.42	1.27
IN.	1.53	3.32	2.38	1.80	1.96	4.41	10.56	6.33	1.76	3.85	2.79	1.42

CAL YR 1972 TOTAL 273,337 MEAN 747 MAX 6,050 MIN 60 CFSM 2.52 IN 34.24
WTR YR 1973 TOTAL 336,192 MEAN 921 MAX 8,770 MIN 77 CFSM 3.10 IN 42.11

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	1900	6.88	4,180	5-22	0600	7.92	5,460
4-20	0500	7.53	4,960	7-01	1400	9.18	7,160
4-28	2100	11.33	10,500	8-04	1700	7.89	5,420

01031600 Morrison Brook near Sebec Corners, Maine

LOCATION.--Lat 45°14'17", long 69°03'06", Piscataquis County, on left bank 60 ft (18 m) upstream from culvert in State Highway 16, 2.4 mi (3.9 km) east of Sebec Corners, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--4.37 sq mi (11.32 sq km).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 408.41 ft (124.483 m) above mean sea level.

AVERAGE DISCHARGE.--9 years (1965-73), 7.76 cfs (0.220 cu m/s), 24.11 in/yr (612 mm/yr).

EXTREMES.--Current year: Maximum discharge, 125 cfs (3.54 cu m/s) Apr. 28; minimum, 0.71 cfs (0.020 cu m/s) Aug. 27, 28.
Period of record: Maximum discharge, 575 cfs (16.3 cu m/s) Nov. 3, 1966 (gage height, 8.95 ft or 2.728 m); minimum, 0.06 cfs (0.002 cu m/s) Aug. 7, 8, 1965 (gage height, 1.91 ft or 0.582 m).

REMARKS.--Records good except those fur winter period, and period of no gage-height record, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	8.1	15	2.7	6.6	4.3	35	32	17	63	2.8	1.2
2	2.8	8.7	11	2.6	7.5	4.2	38	25	13	44	5.0	1.1
3	2.7	17	8.9	2.6	28	4.2	35	22	8.8	26	4.7	3.8
4	2.3	22	7.3	2.5	22	4.1	35	19	7.3	22	5.5	4.2
5	2.0	12	6.3	2.5	18	4.3	33	17	6.4	52	4.2	3.6
6	2.0	5.8	6.5	2.5	15	4.4	34	16	5.8	41	3.5	7.2
7	3.0	6.8	27	2.6	13	4.3	32	15	5.4	30	3.2	3.7
8	19	9.6	14	2.8	12	5.5	30	14	5.2	14	2.9	2.2
9	15	19	11	3.4	11	9.3	27	13	4.9	10	3.5	2.0
10	5.7	18	9.5	3.9	9.8	9.7	28	17	4.7	9.2	5.8	2.0
11	5.7	14	8.6	4.1	9.0	8.4	26	22	4.6	8.1	4.2	1.7
12	5.5	12	8.0	3.9	8.4	11	23	28	26	7.2	2.9	1.4
13	5.0	9.6	9.0	3.5	7.8	19	19	20	19	7.0	2.1	1.2
14	4.2	8.1	6.8	3.1	7.3	21	16	16	10	6.5	1.6	1.2
15	4.0	7.4	5.8	2.8	6.9	21	19	14	7.0	6.2	1.5	1.2
16	3.7	6.6	5.1	2.5	6.6	24	26	14	6.8	5.5	1.4	1.1
17	3.6	5.7	4.6	2.4	6.2	30	34	16	11	4.4	1.4	1.0
18	3.4	5.1	4.1	2.2	6.0	34	41	15	9.0	4.4	1.3	1.7
19	3.2	5.5	3.8	2.2	5.7	33	48	22	7.1	4.3	1.2	3.0
20	3.2	8.5	3.5	2.6	5.4	33	38	31	6.1	3.9	1.2	2.0
21	3.2	14	3.3	3.2	5.3	30	29	45	5.6	3.6	1.5	1.6
22	3.2	17	3.2	5.0	5.2	29	35	70	7.0	3.1	1.3	1.7
23	4.7	14	3.0	14	5.2	29	43	52	7.5	2.9	1.1	4.1
24	7.1	5.6	2.9	20	5.1	30	28	30	6.7	2.7	1.0	3.2
25	7.3	5.5	2.8	14	4.8	31	25	21	6.1	2.6	.87	2.4
26	7.4	11	2.8	10	4.6	33	23	17	5.5	2.4	.76	2.0
27	6.8	19	3.0	9.4	4.5	31	22	15	4.9	2.5	.73	1.7
28	6.4	18	3.1	8.2	4.3	30	105	15	5.9	2.5	.94	1.5
29	7.6	17	3.0	7.1	------	31	80	19	8.1	2.4	.94	1.4
30	8.4	15	2.9	6.7	------	32	45	17	15	2.3	.92	1.4
31	7.7	------	2.8	6.4	------	33	------	15	------	2.2	1.2	------
TOTAL	169.1	345.6	208.6	161.4	251.2	627.7	1,052	704	257.4	397.9	71.16	67.5
MEAN	5.45	11.5	6.73	5.21	8.97	20.2	35.1	22.7	8.58	12.8	2.30	2.25
MAX	19	22	27	20	28	34	105	70	26	63	5.8	7.2
MIN	2.0	5.1	2.8	2.2	4.3	4.1	16	13	4.6	2.2	.73	1.0
CFSM	1.25	2.63	1.54	1.19	2.05	4.62	8.03	5.19	1.96	2.93	.53	.51
IN.	1.44	2.94	1.78	1.37	2.14	5.34	8.96	5.99	2.19	3.39	.61	.57

CAL YR 1972 TOTAL 3,459.30 MEAN 9.45 MAX 75 MIN .90 CFSM 2.16 IN 29.45
WTR YR 1973 TOTAL 4,313.56 MEAN 11.8 MAX 105 MIN .73 CFSM 2.70 IN 36.72

PEAK DISCHARGE (BASE, 70 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-28	--	--	125	7-01	1130	3.69	85
5-22	--	--	90				

*Note.--No gage-height record Apr. 24 to June 13.

01033000 Sebec River at Sebec, Maine

LOCATION.--Lat 45°16'12", long 69°06'44", Piscataquis County, on right bank, 1,000 ft (305 m) downstream from highway bridge and dam at outlet of Sebec Lake at Sebec.

DRAINAGE AREA.--327 sq mi (847 sq km).

PERIOD OF RECORD.--October 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 296.3 ft (90.31 m) above mean sea level. Prior to June 22, 1942, at site on opposite bank 60 ft (18 m) downstream at same datum.

AVERAGE DISCHARGE.--49 years, 623 cfs (17.64 cu m/s), 25.87 in/yr (657 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,140 cfs (146 cu m/s) Apr. 30 (gage height, 8.99 ft or 2.740 m); minimum daily, 112 cfs (3.17 cu m/s) June 15.

Period of record: Maximum discharge, 11,400 cfs (323 cu m/s) Mar. 20, 1936 (gage height, 14.46 ft or 4.407 m), from rating curve extended above 6,000 cfs (170 cu m/s) on basis of velocity-area studies; minimum, about 2 cfs (0.057 cu m/s) Oct. 14-17, 1930 (gage height, 0.87 ft or 0.265 m), when gates in dam were closed.

REMARKS.--Records excellent. Flow regulated by Sebec Lake (see p. 52) and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area, 1936 (M). WSP 1301: 1925.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359	622	481	470	784	773	1,510	4,580	1,600	2,600	296	171
2	357	624	590	467	593	1,040	1,600	3,990	1,570	3,900	294	175
3	353	627	616	466	1,210	1,150	1,720	3,510	1,490	3,900	303	179
4	349	629	760	466	1,680	1,100	1,770	2,830	1,410	3,610	332	508
5	348	630	901	462	1,780	1,060	1,820	2,370	1,340	3,540	1,810	773
6	347	628	873	460	1,770	1,010	1,830	2,140	1,270	3,530	2,590	907
7	349	625	1,060	456	1,690	960	1,780	1,940	825	3,300	2,520	1,330
8	362	624	1,140	454	1,600	922	1,730	1,760	446	2,990	2,440	1,420
9	365	630	1,130	449	1,530	890	1,670	1,600	443	2,760	1,500	1,380
10	361	637	1,080	449	1,460	885	1,590	1,530	442	2,560	288	1,360
11	360	642	1,030	445	1,430	864	1,570	1,500	326	1,320	1,660	1,320
12	362	644	958	326	1,400	853	1,490	1,520	121	309	2,570	671
13	362	645	934	159	1,370	873	1,420	1,540	120	310	2,500	135
14	362	645	886	159	1,050	904	1,350	1,520	116	311	2,400	138
15	361	643	690	159	801	934	1,290	1,470	112	309	1,620	140
16	357	640	596	159	799	968	1,270	1,450	116	311	617	141
17	551	341	602	159	795	1,010	1,340	1,440	125	311	616	848
18	673	168	563	160	792	1,120	1,530	1,430	128	310	609	1,110
19	665	169	551	162	787	1,250	1,850	1,500	129	311	593	1,320
20	659	174	538	164	776	1,400	2,250	1,600	132	311	591	1,430
21	652	178	525	166	768	1,460	2,500	1,730	138	310	587	1,370
22	646	179	518	169	753	1,490	2,720	2,250	145	306	582	1,300
23	643	182	506	202	757	1,470	3,200	2,710	148	303	530	1,260
24	641	184	496	319	753	1,460	3,620	2,760	151	302	575	1,210
25	640	187	488	820	749	1,440	3,510	2,590	150	299	571	1,130
26	636	195	481	1,140	741	1,460	3,310	2,380	154	297	567	1,040
27	632	430	480	1,090	757	1,470	3,370	2,170	157	298	561	953
28	630	637	476	1,040	807	1,490	3,460	1,950	169	296	318	672
29	631	690	473	1,030	------	1,470	4,790	1,830	299	294	169	730
30	627	506	471	1,000	------	1,460	5,050	1,730	715	294	170	711
31	623	------	471	964	------	1,470	------	1,640	------	294	170	------
TOTAL	15,263	14,355	21,364	14,591	30,203	36,106	67,610	64,960	14,487	40,096	30,999	26,052
MEAN	492	479	689	471	1,079	1,165	2,254	2,095	483	1,293	1,000	869
MAX	673	690	1,140	1,140	1,780	1,490	5,050	4,580	1,600	3,900	2,590	1,430
MIN	347	168	471	159	593	773	1,270	1,430	112	294	169	135
MEAN*	407	714	678	504	814	1,175	2,581	1,832	562	1,337	912	349
CFSM*	1.24	2.18	2.07	1.54	2.49	3.59	7.89	5.60	1.72	4.09	2.79	1.07
IN. *	1.43	2.43	2.39	1.78	2.59	4.14	8.80	6.46	1.92	4.72	3.22	1.19

CAL YR 1972 TOTAL 255,115 MEAN 697 MAX 4,110 MIN 103 MEAN* 753 CFSM* 2.30 IN* 31.36
WTR YR 1973 TOTAL 376,116 MEAN 1,030 MAX 5,050 MIN 112 MEAN* 989 CFSM* 3.02 IN* 41.07

*Adjusted for change in contents in Sebec Lake.

01033500 Pleasant River near Milo, Maine

LOCATION.--Lat 45°16'58", long 69°00'13", Piscataquis County, on left bank 2.5 mi (4.0 km) northeast of Milo, and 7.9 mi (12.7 km) upstream from mouth.

DRAINAGE AREA.--324 sq mi (839 sq km).

PERIOD OF RECORD.--June 1920 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 302 ft (92.0 m), from river-profile map. Prior to June 17, 1929, nonrecording gage at Snows Bridge, 2.2 mi (3.5 km) downstream at datum 32 ft (9.8 m) lower.

AVERAGE DISCHARGE.--53 years, 700 cfs (19.82 cu m/s), 29.34 in/yr (745 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,100 cfs (399 cu m/s) Apr. 29 (gage height, 9.87 ft or 3.008 m); minimum, 196 cfs (5.55 cu m/s) Oct. 7 (gage height, 1.95 ft or 0.594 m).
Period of record: Maximum discharge, 28,600 cfs (810 cu m/s) Nov. 4, 1966 (gage height, 15.46 ft or 4.712 m); minimum, 15 cfs (0.42 cu m/s) Aug. 17, 1944 (gage height, 1.21 ft or 0.369 m).

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Flow may be slightly regulated by small storage dams above station. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1921-22 (M), 1924-27 (M), 1929 (M). WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FFET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	565	1,050	395	490	320	1,600	4,110	1,470	7,930	160	270
2	332	516	1,070	390	480	315	1,910	2,790	1,320	6,920	500	372
3	287	780	890	380	900	310	1,880	2,300	1,080	3,250	1,500	473
4	253	1,010	775	370	2,000	305	1,730	2,290	926	2,000	3,850	650
5	227	849	660	355	1,600	325	1,570	2,120	819	2,850	4,050	858
6	209	716	710	345	1,390	355	1,460	1,790	734	3,600	2,900	725
7	214	628	1,270	335	1,220	355	1,350	1,550	697	2,600	1,600	1,500
8	1,070	569	1,100	320	1,100	510	1,250	1,350	668	1,750	1,180	1,010
9	1,190	806	920	315	970	720	1,150	1,220	615	1,200	870	714
10	847	1,250	800	305	860	820	1,060	1,430	585	810	790	551
11	636	1,130	735	300	770	720	1,010	1,720	546	710	1,580	456
12	529	948	700	295	695	660	900	2,320	519	590	1,350	394
13	477	805	860	290	640	1,050	793	2,170	569	460	1,100	347
14	424	717	825	285	595	1,170	762	1,790	487	540	860	308
15	398	650	730	280	550	1,080	790	1,440	423	540	700	289
16	374	577	675	280	515	1,220	1,060	1,410	430	535	760	283
17	352	486	625	275	480	1,800	1,840	1,490	933	500	709	266
18	331	498	585	270	455	3,300	3,220	1,310	899	455	600	274
19	307	460	550	270	430	2,950	4,230	2,300	688	375	525	651
20	289	521	520	310	410	2,300	4,410	3,030	543	310	465	612
21	271	811	495	475	395	1,750	3,750	3,070	454	270	438	503
22	260	816	470	750	410	1,420	4,060	5,710	553	250	475	434
23	287	754	455	1,200	430	1,320	4,900	4,890	672	210	425	736
24	598	684	435	1,600	420	1,240	5,610	3,120	551	180	377	716
25	737	510	420	1,150	395	1,260	4,610	2,170	472	155	326	563
26	664	655	410	910	375	1,370	3,550	1,710	417	145	291	473
27	569	2,050	400	750	355	1,420	2,890	1,410	389	140	266	412
28	496	1,820	390	660	335	1,300	7,270	1,240	491	150	261	369
29	602	1,660	390	590	------	1,190	13,000	1,570	812	175	263	332
30	755	1,300	390	550	------	1,180	7,720	1,510	2,990	205	255	305
31	661	------	390	510	------	1,350	------	1,300	------	180	243	------
TOTAL	14,959	25,541	20,695	15,510	19,665	35,385	91,335	67,630	22,752	39,985	29,669	15,846
MEAN	483	851	668	500	702	1,141	3,045	2,182	758	1,290	957	528
MAX	1,190	2,050	1,270	1,600	2,000	3,300	13,000	5,710	2,990	7,930	4,050	1,500
MIN	209	460	390	270	335	305	762	1,220	389	140	160	266
CFSM	1.49	2.63	2.06	1.54	2.17	3.52	9.40	6.73	2.34	3.98	2.95	1.63
IN.	1.72	2.93	2.38	1.78	2.26	4.06	10.49	7.76	2.61	4.59	3.41	1.82

CAL YR 1972 TOTAL 292,391 MEAN 799 MAX 6,920 MIN 96 CFSM 2.47 IN 33.57
WTR YR 1973 TOTAL 398,972 MEAN 1,093 MAX 13,000 MIN 140 CFSM 3.37 IN 45.81

PEAK DISCHARGE (BASE, 3,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-24	0600	6.32	5,830	7-01	1900	8.00	9,610
4-29	1000	9.87	14,100	7-06	-	-	3,800
5-22	1300	6.39	5,980	8-05	-	-	4,250

Note.--No gage-height record July 3 to Aug. 16.

01034000 Piscataquis River at Medford, Maine

LOCATION.--Lat 45°15'40", long 68°52'07", Piscataquis County, on left bank 2.0 mi (3.2 km) southwest of Medford, and 3.3 mi (5.3 km) downstream from Pleasant River.

DRAINAGE AREA.--1,161 sq mi (3,007 sq km).

PERIOD OF RECORD.--June 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 248.68 ft (75.798 m) above mean sea level. Prior to Aug. 14, 1929, nonrecording gage at site 1.8 mi (2.9 km) downstream at different datum.

AVERAGE DISCHARGE.--49 years, 2,315 cfs (65.56 cu m/s), 27.08 in/yr (688 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 33,200 cfs (940 cu m/s) Apr. 29 (gage height, 11.36 ft or 3.463 m); minimum, 669 cfs (18.9 cu m/s) Sept. 17 (gage height, 2.31 ft or 0.704 m).
Period of record: Maximum discharge, 60,100 cfs (1,700 cu m/s) Nov. 4, 1966 (gage height, 15.58 ft or 4.749 m); minimum, 99 cfs (2.80 cu m/s) Oct. 28, 1947 (gage height, 1.28 ft or 0.390 m).
Maximum stage known, 20.8 ft (6.34 m) May 1, 1923, former site and datum.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Sebec Lake 15 mi (24 km) upstream (see p. 52) and other small reservoirs and powerplants above station.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area. WSP 1231: 1936. WSP 1301: 1925-29 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	869	1,950	3,140	1,530	2,600	1,800	6,150	16,200	4,870	14,400	735	764
2	945	1,800	2,500	1,530	2,000	1,780	7,060	11,200	4,560	20,300	738	835
3	907	2,170	2,700	1,520	4,000	1,740	7,090	9,100	3,870	13,500	1,170	962
4	850	2,960	2,950	1,490	6,600	1,720	7,010	8,050	3,370	9,250	4,060	1,530
5	793	2,680	3,100	1,470	6,000	1,700	6,610	6,960	3,030	11,300	8,200	2,710
6	755	2,320	3,250	1,430	5,150	1,660	6,520	5,980	2,770	13,400	7,080	2,570
7	761	2,090	4,400	1,400	4,550	1,650	6,230	5,200	2,560	10,500	5,320	4,260
8	2,370	1,950	4,900	1,370	4,200	1,720	5,800	4,510	1,920	7,700	4,620	3,860
9	4,050	2,350	3,850	1,330	3,800	1,950	5,350	3,970	1,730	6,050	4,010	3,060
10	2,600	4,470	3,200	1,300	3,600	3,120	4,840	4,170	1,620	5,020	2,510	2,590
11	1,920	4,070	2,950	1,250	3,400	2,950	4,550	5,100	1,510	4,240	5,050	2,320
12	1,620	3,260	2,830	1,100	3,250	2,760	4,140	6,220	1,540	2,280	6,220	2,060
13	1,480	2,770	2,800	980	3,100	3,510	3,660	6,120	2,260	1,760	5,540	1,160
14	1,370	2,470	2,900	900	2,750	4,620	3,450	5,340	1,630	1,640	4,580	872
15	1,300	2,280	3,050	880	2,200	4,410	3,440	4,440	1,260	1,730	3,990	800
16	1,210	2,110	2,750	875	2,000	4,380	4,120	4,310	1,120	1,640	2,420	748
17	1,210	1,820	2,550	870	1,900	5,110	6,360	4,700	1,920	1,620	1,940	783
18	1,400	1,450	2,350	865	1,800	8,080	10,200	4,260	2,270	1,440	1,740	1,530
19	1,390	1,300	2,200	865	1,700	10,400	12,300	5,940	1,750	1,310	1,580	2,010
20	1,340	1,420	2,050	910	1,630	8,550	13,400	7,820	1,390	1,200	1,470	2,540
21	1,280	2,490	1,950	1,050	1,580	6,740	12,100	7,760	1,160	1,120	1,440	2,400
22	1,250	2,370	1,870	1,350	1,560	5,580	12,100	14,500	1,220	1,070	1,460	2,170
23	1,290	1,940	1,770	2,500	1,540	4,850	14,300	15,100	1,560	997	1,540	2,450
24	1,710	1,570	1,700	4,900	1,530	4,600	16,000	10,900	1,510	916	1,460	2,810
25	2,200	1,520	1,650	5,200	1,570	4,750	14,300	8,190	1,320	852	1,340	2,440
26	2,140	1,700	1,590	4,900	1,600	5,580	11,600	6,660	1,150	801	1,250	2,100
27	1,930	5,750	1,530	4,100	1,610	6,010	9,630	5,640	1,060	754	1,180	1,850
28	1,760	6,080	1,510	3,700	1,580	5,590	16,100	4,920	1,110	717	1,100	1,680
29	1,860	5,280	1,500	3,400	------	5,140	30,700	5,280	1,590	703	809	1,510
30	2,300	4,330	1,500	3,200	------	5,020	26,800	5,360	4,530	723	741	1,370
31	2,210	------	1,520	3,000	------	5,420	------	4,700	------	768	718	------
TOTAL	49,070	80,720	78,510	61,165	78,800	132,890	291,910	218,600	63,160	139,701	86,011	58,744
MEAN	1,583	2,691	2,533	1,973	2,814	4,287	9,730	7,052	2,105	4,506	2,775	1,958
MAX	4,050	6,080	4,900	5,200	6,600	10,400	30,700	16,200	4,870	20,300	8,200	4,260
MIN	755	1,300	1,500	865	1,530	1,650	3,440	3,970	1,060	703	718	748
MEAN*	1,498	2,926	2,522	2,006	2,549	4,297	10,060	6,789	2,184	4,550	2,687	1,438
CFSM*	1.29	2.52	2.17	1.73	2.20	3.70	8.66	5.85	1.88	3.92	2.31	1.24
IN. *	1.49	2.81	2.50	1.99	2.29	4.27	9.66	6.74	2.10	4.52	2.66	1.38

CAL YR 1972 TOTAL 998,383 MEAN 2,728 MAX 18,400 MIN 421 MEAN* 2,784 CFSM* 2.40 IN* 32.66
WTR YR 1973 TOTAL 1,339,281 MEAN 3,669 MAX 30,700 MIN 703 MEAN* 3,628 CFSM* 3.12 IN* 42.41

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-24	1500	8.14	16,300	5-22	2200	8.13	16,200
4-29	1800	11.36	33,200	7-02	0400	9.30	21,700

*Adjusted for change in contents in Sebec Lake.

01034500 Penobscot River at West Enfield, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, on left bank 30 ft (9 m) downstream from highway bridge, 1,000 ft (305 m) downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,670 sq mi (17,280 sq km), including 249 sq mi (645 sq km) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--November 1901 to current year.

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft (38.387 m) above mean sea level. Prior to Dec. 11, 1912, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--71 years (1902-73), 11,680 cfs (330.8 cu m/s), 23.78 in/yr (604 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 128,000 cfs (3,620 cu m/s) Apr. 30 (gage height, 21.66 ft or 6.602 m); minimum daily, 5,530 cfs (157 cu m/s) July 29.

Period of record: Maximum discharge, 153,000 cfs (4,330 cu m/s) May 1, 1923 (gage height, 25.15 ft or 7.666 m), from rating curve extended above 88,000 cfs (2,490 cu m/s); minimum, 1,630 cfs (46.2 cu m/s) Oct. 29, 1905 (gage height, 1.0 ft or 0.30 m).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by many reservoirs above station (see p. 52). Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

COOPERATION.--Supplemental water-stage recorder graph furnished by Bangor Hydro-Electric Company.

REVISIONS (WATER YEARS).--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,510	11,000	15,500	10,200	13,200	9,050	26,400	105,000	24,000	20,200	5,920	7,160
2	8,080	10,100	12,300	10,500	13,200	9,000	29,200	89,900	26,200	31,200	5,970	7,450
3	7,660	10,300	12,600	10,800	14,000	9,000	30,900	81,400	24,100	25,400	6,720	6,590
4	7,200	12,900	12,600	11,000	15,000	8,900	32,600	73,700	21,900	18,700	9,250	7,090
5	7,380	13,800	11,600	11,100	22,000	9,900	32,600	67,200	17,000	19,800	13,200	9,360
6	6,830	13,100	11,900	11,200	28,000	9,100	32,300	53,400	13,500	32,600	17,900	10,100
7	6,400	12,600	14,100	11,000	26,500	9,300	31,500	48,900	12,600	35,000	14,900	13,800
8	8,380	11,600	18,000	10,600	24,500	9,700	29,700	42,400	12,200	31,500	12,900	14,400
9	13,500	11,700	18,500	10,000	22,000	10,300	28,000	36,600	11,900	28,400	11,800	12,200
10	11,500	15,900	18,700	9,400	20,000	12,000	25,700	31,700	11,100	26,300	10,100	10,700
11	10,400	18,200	17,800	9,100	18,500	13,800	24,200	29,900	10,900	23,600	13,200	9,940
12	9,080	17,000	16,600	8,800	17,200	15,000	22,400	25,100	11,400	17,300	16,800	9,340
13	8,880	15,500	15,300	8,700	16,500	16,000	20,100	30,200	14,200	14,200	17,900	8,160
14	8,390	14,300	15,600	8,400	15,600	17,000	18,800	29,100	11,600	11,600	16,100	7,050
15	7,920	13,600	14,900	8,000	14,600	19,000	18,300	26,900	10,600	11,900	14,300	7,590
16	7,910	12,800	13,500	7,950	14,300	20,000	19,300	26,000	9,840	10,900	12,100	7,390
17	7,580	11,600	14,500	7,900	13,000	22,500	23,200	25,600	11,300	10,500	10,300	7,430
18	9,410	11,000	15,900	7,900	12,000	28,500	32,900	27,800	12,200	9,480	9,530	7,380
19	8,020	10,100	16,000	8,000	11,300	34,000	40,900	19,000	11,300	9,280	9,060	9,100
20	7,380	9,640	15,800	8,100	11,000	37,000	43,500	24,800	10,000	8,930	9,370	10,300
21	6,780	11,700	15,700	8,450	10,700	37,000	46,900	26,800	8,990	9,300	9,120	10,800
22	6,470	12,000	15,300	9,200	10,400	34,500	46,400	41,000	8,550	8,070	8,030	10,000
23	6,430	11,100	15,400	10,400	10,000	30,000	51,300	52,000	8,530	6,970	7,680	10,500
24	7,000	10,900	14,000	13,000	9,800	27,000	60,200	49,700	8,780	6,910	8,270	10,500
25	8,700	9,990	12,000	15,500	9,700	25,500	62,500	44,600	8,120	6,430	7,730	10,100
26	9,980	10,300	11,300	17,000	9,500	25,700	58,900	41,200	8,210	5,700	7,500	9,490
27	9,760	15,000	10,900	16,000	9,400	25,200	55,200	37,100	7,800	6,110	7,270	8,850
28	9,680	19,200	12,200	15,000	9,200	25,300	66,800	31,100	7,750	5,900	7,560	8,470
29	9,730	18,700	12,000	14,000	------	24,500	109,000	30,000	8,460	5,530	6,430	8,120
30	11,000	17,900	10,800	13,600	------	24,000	123,000	31,000	11,400	5,930	6,690	8,120
31	11,300	------	10,300	13,300	------	24,600	------	30,800	------	5,610	6,970	------
TOTAL	264,940	393,530	441,600	334,100	421,300	622,050	1,245.7M	1,311.9M	374,690	470,250	323,570	277,300
MEAN	8,546	13,120	14,250	10,780	15,050	20,080	41,520	42,320	12,490	15,170	10,440	9,243
MAX	13,500	19,200	18,700	17,000	28,000	37,000	123,000	105,000	26,200	35,000	18,200	14,400
MIN	6,400	9,640	10,300	7,900	9,200	8,900	18,300	19,000	7,750	5,530	5,920	6,590
MEAN*	6,709	13,620	13,240	9,153	14,180	20,450	51,150	42,390	11,900	13,530	9,118	6,589
CFSM*	1.01	2.04	1.98	1.37	2.13	3.07	7.67	6.36	1.78	2.03	1.37	.99
IN. *	1.16	2.28	2.28	1.58	2.22	3.54	8.56	7.33	1.99	2.34	1.58	1.10

CAL YR 1972 TOTAL 5,064,160 MEAN 13,840 MAX [illegible] MIN 4,150 MEAN* 14,460 CFSM* 2.17 IN* 29.50
WTR YR 1973 TOTAL 5,481,230 MEAN 17,760 MAX 123,000 MIN 5,530 MEAN* 17,660 CFSM* 2.65 IN* 35.96

M Expressed in thousands.
* Adjusted for change in contents in East and West Branches of Penobscot River, also Sebec Lake in Piscataquis River basin.

01035000 Passadumkeag River at Lowell, Maine

LOCATION.--Lat 45°11'04", long 68°28'29", Penobscot County, on right bank at Lowell, 0.5 mi (0.8 km) downstream from dam and highway bridge and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--299 sq mi (774 sq km).

PERIOD OF RECORD.--October 1915 to current year.

GAGE.--Water-stage recorder. Datum of gage is 151.3 ft (46.12 m) above mean sea level. Oct. 1, 1915 to Sept. 30, 1917, nonrecording gage at same site and datum. Oct. 1, 1917, to Nov. 30, 1921, nonrecording gage at site on left bank 400 ft (122 m) downstream from highway bridge at different datum.

AVERAGE DISCHARGE.--58 years, 499 cfs (14.13 cu m/s), 22.66 in/yr (576 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,760 cfs (78.2 cu m/s) May 1 (gage height, 5.99 ft or 1.826 m); maximum gage height, 6.31 ft (1.923 m) Dec. 17 (backwater from ice); minimum discharge, 153 cfs (4.33 cu m/s) Oct. 1 (gage height, 1.18 ft or 0.360 m).

Period of record: Maximum discharge, 5,680 cfs (161 cu m/s) May 2, 1923 (gage height, 9.40 ft or 2.865 m); minimum, about 5 cfs (0.14 cu m/s) several times in July and August 1921 (gates in dam closed).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS.--WSP 821: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	394	798	540	850	385	1,270	2,750	1,060	589	449	313
2	171	388	713	590	920	375	1,360	2,720	987	741	482	344
3	177	416	665	660	1,050	365	1,440	2,610	912	802	659	381
4	179	487	649	730	1,200	355	1,500	2,480	836	798	795	408
5	175	526	667	730	1,230	350	1,560	2,350	764	1,130	986	421
6	170	528	620	720	1,200	345	1,620	2,200	691	1,740	1,030	438
7	172	506	758	710	1,150	340	1,650	2,060	637	1,950	1,080	495
8	229	470	949	690	1,070	350	1,660	1,910	596	1,960	1,100	510
9	278	469	880	680	1,020	360	1,630	1,780	562	1,890	1,070	511
10	309	541	840	665	950	385	1,600	1,670	534	1,790	1,060	479
11	316	604	790	650	900	420	1,570	1,570	507	1,680	1,150	432
12	302	631	755	640	855	480	1,500	1,500	500	1,570	1,160	386
13	284	622	725	625	810	545	1,410	1,430	622	1,440	1,140	348
14	259	593	700	620	770	630	1,340	1,360	706	1,340	1,110	317
15	238	551	670	605	735	720	1,260	1,290	769	1,230	1,020	294
16	223	496	655	595	710	830	1,210	1,260	786	1,120	910	275
17	209	446	635	580	670	930	1,230	1,240	814	996	803	260
18	199	400	620	575	630	1,050	1,320	1,200	807	885	696	253
19	188	363	600	570	600	1,200	1,400	1,190	777	792	606	297
20	177	357	585	575	570	1,330	1,480	1,180	723	700	535	345
21	167	401	575	600	540	1,450	1,540	1,190	654	625	480	383
22	160	436	560	640	525	1,440	1,610	1,310	591	566	437	388
23	159	425	550	700	500	1,420	1,690	1,410	557	518	406	402
24	170	409	540	830	475	1,380	1,740	1,440	523	478	377	403
25	186	391	535	900	455	1,350	1,760	1,440	488	446	353	392
26	201	393	530	915	440	1,320	1,750	1,400	457	417	332	371
27	213	501	520	905	425	1,300	1,730	1,330	427	393	317	347
28	219	604	520	880	405	1,270	1,900	1,250	412	372	313	326
29	253	727	515	855	------	1,250	2,510	1,200	430	366	331	306
30	317	783	510	840	------	1,230	2,670	1,140	478	401	320	287
31	376	------	520	830	------	1,230	------	1,100	------	431	307	------
TOTAL	6,837	14,858	20,149	21,645	21,655	26,385	47,910	49,960	19,607	30,156	21,814	11,112
MEAN	221	495	650	698	773	851	1,597	1,612	654	973	704	370
MAX	376	783	949	915	1,230	1,450	2,670	2,750	1,060	1,960	1,160	511
MIN	159	357	510	540	405	340	1,210	1,100	412	366	307	253
CFSM	.74	1.66	2.17	2.33	2.59	2.85	5.34	5.39	2.19	3.25	2.35	1.24
IN.	.85	1.85	2.51	2.69	2.69	3.28	5.96	6.22	2.44	3.75	2.71	1.38

CAL YR 1972 TOTAL 213,477 MEAN 583 MAX 2,480 MIN 136 CFSM 1.95 IN 26.56
WTR YR 1973 TOTAL 292,088 MEAN 800 MAX 2,750 MIN 159 CFSM 2.68 IN 36.34

01036500 Kenduskeag Stream near Kenduskeag, Maine

LOCATION.--Lat 44°53'48", long 68°53'04", Penobscot County, on right bank 300 ft (91 m) upstream from highway bridge, 1.8 mi (2.9 km) downstream from Black Stream, and 2.9 mi (4.7 km) south of Kenduskeag.

DRAINAGE AREA.--178 sq mi (461 sq km).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 91.94 ft (28.023 m) above mean sea level.

AVERAGE DISCHARGE.--32 years, 316 cfs (8.949 cu m/s), 24.11 in/yr (612 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,850 cfs (80.7 cu m/s) Apr. 29 (gage height, 8.48 ft or 2.585 m); minimum daily, 22 cfs (0.62 cu m/s) Aug. 27.

Period of record: Maximum discharge, 6,400 cfs (181 cu m/s) Sept. 12, 1954 (gage height, 14.83 ft or 4.520 m); minimum daily, 1.0 cfs (0.028 cu m/s) Sept. 30, 1948, Aug. 8, 1965.

REMARKS.--Records fair. An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 1.8 mi (2.9 km) above station. During high stages of Souadabscook Stream part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream all flow continues down its own channel. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	269	706	200	235	245	905	1.410	740	1.070	25	64
2	47	212	625	230	230	230	970	976	619	2.140	29	53
3	40	321	585	240	350	220	1.110	738	478	1.340	128	46
4	35	556	565	225	640	225	1.280	628	366	781	164	97
5	30	477	540	195	700	250	1.440	545	283	1.270	146	157
6	28	365	590	180	600	290	1.590	459	228	1.850	103	144
7	32	293	635	170	535	310	1.620	390	207	1.420	76	319
8	360	241	900	160	475	335	1.500	327	199	904	57	277
9	477	581	800	150	430	450	1.280	280	178	615	42	176
10	326	1.180	690	145	395	600	1.070	320	152	424	40	111
11	219	917	610	140	365	570	949	441	127	310	60	75
12	148	678	540	140	340	550	864	652	112	241	53	57
13	117	529	505	135	315	670	704	612	333	182	45	44
14	102	431	515	130	295	880	649	481	273	149	36	37
15	91	370	465	130	280	840	641	369	177	137	32	34
16	79	324	420	130	265	1.000	729	427	133	126	29	33
17	71	269	380	125	255	1.400	925	600	329	111	28	30
18	62	235	350	125	250	2.050	1.110	494	343	91	26	32
19	57	212	320	125	245	2.550	1.100	790	228	83	26	129
20	51	314	300	130	240	2.650	984	763	151	79	56	148
21	48	867	285	150	235	1.950	814	932	108	74	53	109
22	47	770	275	190	240	1.450	718	1.960	88	69	41	85
23	50	613	260	260	260	1.130	792	2.150	95	58	35	173
24	93	446	250	350	290	1.000	741	1.620	98	46	30	216
25	140	329	240	395	310	1.070	596	1.130	84	40	26	167
26	136	427	225	375	305	1.220	472	826	74	34	23	121
27	115	1.360	215	340	285	1.180	394	646	68	32	22	92
28	96	1.200	205	310	260	1.000	1.300	525	85	32	120	71
29	155	1.130	200	285	------	910	2.720	680	123	31	168	57
30	366	983	190	260	------	880	2.170	752	313	30	101	47
31	341	------	185	245	------	885	------	679	------	26	70	------
TOTAL	4.001	16.899	13.571	6.365	9.625	28.990	32.137	23.602	6.792	13.795	1.890	3.201
MEAN	129	563	438	205	344	935	1.071	761	226	445	61.0	107
MAX	477	1.360	900	395	700	2.650	2.720	2.150	740	2.140	168	319
MIN	28	212	185	125	230	220	394	280	68	26	22	30
CFSM	.72	3.16	2.46	1.15	1.93	5.25	6.02	4.28	1.27	2.50	.34	.60
IN.	.84	3.53	2.84	1.33	2.01	6.06	6.72	4.93	1.42	2.88	.39	.67

CAL YR 1972 TOTAL 152.801.8 MEAN 417 MAX 2.710 MIN 9.4 CFSM 2.34 IN 31.93
WTR YR 1973 TOTAL 160.868.0 MEAN 441 MAX 2.720 MIN 22 CFSM 2.48 IN 33.62

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-20	--	--	2,800	5-23	0400	7.29	2,240
4-07	0600	6.15	1,680	7-02	0800	7.36	2,280
4-29	1600	8.48	2,850	7-06	1200	6.58	1,890

Reservoirs in Penobscot River basin

01027000 CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 mi (58 km) upstream from Millinocket and 42 mi (68 km) northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000, 000,000 cu ft (850,000,000 cu m). Records furnished by Great Northern Paper Co.

01027000 AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 mi (5 km) upstream from Millinocket, Maine, used for power; usable capacity of reservoir 15,000,000,000 cu ft (420,000,000 cu m). Records furnished by Great Northern Paper Co.

01028500 CHAMBERLAIN AND TELOS LAKES AND ROUND POND in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain and Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,050,000,000 cu ft (142,700,000 cu m) between gage height 2.0 and 11.0 ft (0.61 m and 3.35 m). Records furnished by Bangor Hydro-Electric Co.

01029000 SECOND AND GRAND LAKES in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine, used for power; usable capacity, 1,785,000,000 cu ft (50,550,000 cu m) between elevations 643.0 and 655.0 ft (195.99 m and 199.64 m). Records furnished by Bangor Hydro-Electric Co.

01032500 SEBEC LAND on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity 2,511,000,000 cu ft (71,110,000 cu m) between elevations 316.1 and 325.1 ft (96.35 m and 99.09 m). Records furnished by Bangor Hydro-Electric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CHESUNCOOK, RIPOGENUS CARIBOU, AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES AND MOOSE POND*	CHAMBERLAIN, TELOS, SECOND, AND GRAND LAKES AND ROUND POND	SEBEC LAKE
SEPT. 30, 1972	46,066	2,861	1,866
OCT. 31	41,296	2,939	1,638
NOV. 30	41,523	3,402	2,247
DEC. 31	38,451	3,807	2,218
JAN. 31, 1973	34,060	3,752	2,306
FEB. 28	32,701	3,656	1,665
MAR. 31	34,383	2,935	1,693
APR. 30	55,785	5,647	2,540
MAY 31	56,038	6,283	1,837
JUNE 30	54,305	6,283	2,042
JULY 31	50,202	5,870	2,160
AUG. 31	47,177	5,590	1,925
SEPT. 30	43,763	3,472	577

*Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power (total capacity approximately 12,000,000,000 cu ft or 340,000,000 cu m); Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Reservoir, Dole, and Poland Ponds.

01038000 Sheepscot River at North Whitefield, Maine

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, on left bank at North Whitefield, 50 ft (15 m) upstream from highway bridge, and 0.6 mi (1.0 km) downstream from Pleasant Pond Brook.

DRAINAGE AREA.--148 sq mi (383 sq km).

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 101.1 ft (30.82 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 240 cfs (6.797 cu m/s), 22.02 in/yr (559 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,880 cfs (53.2 cu m/s) Feb. 3 (gage height, 6.43 ft or 1.960 m); minimum, 33 cfs (0.93 cu m/s) Sept. 18 (gage height, 2.04 ft or 0.622 m).
Period of record: Maximum discharge, 5,260 cfs (149 cu m/s) Apr. 13, 1940 (gage height, 11.81 ft or 3.600 m, backwater from fish weir), from rating curve extended above 1,900 cfs (53.8 cu m/s); minimum, 5.0 cfs (0.14 cu m/s) Oct. 24, 1941 (gage height, 1.70 ft or 0.518 m).

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flow by sawmill at North Whitefield. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	225	640	220	365	155	378	489	406	806	76	47
2	52	222	560	261	415	150	528	470	358	760	102	44
3	46	347	505	264	1,640	146	687	439	315	705	368	45
4	42	364	470	252	1,450	156	659	413	281	687	220	84
5	40	309	428	235	1,320	198	714	378	258	1,510	191	76
6	39	287	489	220	1,160	222	765	341	233	1,440	182	58
7	74	272	775	210	1,000	222	678	309	220	1,160	173	98
8	349	261	730	200	850	378	617	275	210	980	164	68
9	188	358	650	190	728	583	565	261	225	825	162	51
10	138	361	600	180	615	548	561	293	249	682	158	47
11	132	318	555	175	515	510	613	309	195	617	146	45
12	146	300	525	170	455	634	535	385	179	514	134	41
13	177	287	505	165	396	805	485	347	254	428	126	39
14	186	275	450	160	354	835	446	318	434	388	116	37
15	177	281	388	155	325	732	406	296	269	361	109	38
16	169	266	355	150	303	775	378	354	299	315	102	37
17	162	244	330	150	275	962	351	371	489	269	95	34
18	156	238	305	150	250	1,510	325	338	347	233	90	38
19	148	220	287	145	230	1,280	300	378	293	215	85	71
20	142	527	266	155	212	1,160	275	347	261	191	79	58
21	134	638	250	180	202	1,020	252	730	233	184	76	48
22	126	450	244	250	198	885	241	835	212	171	71	46
23	130	430	233	510	200	760	238	805	233	152	66	55
24	146	420	222	647	198	669	222	710	208	136	62	56
25	144	406	212	596	185	604	208	651	182	126	58	53
26	132	722	205	587	175	583	195	587	169	114	53	47
27	126	902	200	561	165	574	206	514	175	107	52	45
28	124	736	195	523	160	497	630	470	241	102	66	42
29	191	750	185	485	------	454	617	506	287	92	68	39
30	351	705	185	445	------	439	510	462	375	85	56	38
31	258	------	185	395	------	396	------	424	------	80	51	------
TOTAL	4,483	12,121	12,129	8,986	14,341	18,842	13,595	13,805	8,090	14,435	3,557	1,525
MEAN	145	404	391	290	512	608	453	445	270	466	115	50.8
MAX	351	902	775	647	1,640	1,510	765	835	489	1,510	368	98
MIN	39	220	185	145	160	146	195	261	169	80	51	34
CFSM	.98	2.73	2.64	1.96	3.46	4.11	3.06	3.01	1.82	3.15	.78	.34
IN.	1.13	3.05	3.05	2.26	3.60	4.74	3.42	3.47	2.03	3.63	.89	.38

CAL YR 1972 TOTAL 115,382 MEAN 315 MAX 2,850 MIN 20 CFSM 2.13 IN 29.00
WTR YR 1973 TOTAL 125,909 MEAN 345 MAX 1,640 MIN 34 CFSM 2.33 IN 31.65

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-03	1800	6.43	1,880	7-05	2000	6.28	1,780
3-18	0700	5.99	1,590				

01040500 Moosehead Lake at East Outlet, Maine

LOCATION.--Lat 45°35'07", long 69°42'48", Piscataquis County, on left bank at wharf at east outlet of lake at Moosehead.

DRAINAGE AREA.--1,266 sq mi (3,279 sq km).

PERIOD OF RECORD.--March 1895 to current year.

GAGE.--Nonrecording gage read daily at 0700. Datum of gage is 1,011.48 ft (308.299 m) above mean sea level.

EXTREMES.--Current year: Maximum gage height observed, 17.75 ft (5.410 m) July 2; minimum observed, 13.92 ft (4.243 m) Oct. 6.
Period of record: Maximum gage height, 18.0 ft (5.49 m) May 30, 1902; minimum, 10.0 ft (3.05 m) or lower, present datum Mar 20-29, 1911.

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft (2.13 m). Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft (3.05 m) at a faster rate than formerly. Capacity, 23,735,000,000 cu ft (672,200,000 cu m) between gage heights 10.0 and 17.5 ft (3.05 and 5.33 m). Water is used primarily for power, although some logs are driven each year. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1973, is given below:

October	20	February	40	June	75
November	40	March	35	July	70
December	40	April	40	August	60
January	50	May	65	September. . . .	55

COOPERATION.--Gage-height record furnished by Kennebec Water Power Co.

REVISIONS (WATER YEARS).--WSP 1111: 1946-47 (change in contents). WSP 1901: Drainage area.

Capacity table (gage height, in feet, and capacity, in millions of cubic feet)

10.0	0	13.0	9,397	16.0	18,908
11.0	3,110	14.0	12,537	17.0	22,121
12.0	6,237	15.0	15,713	18.0	25,355

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.32	14.70	15.88	17.15	17.16	17.04	16.28	17.52	17.46	17.74	16.81	16.96
2	14.23	14.71	15.95	17.18	17.16	16.94	16.32	17.60	17.52	17.75	16.78	16.93
3	14.16	14.73	16.05	17.15	17.27	16.88	16.43	17.62	17.52	17.73	16.78	16.90
4	14.10	14.74	16.15	17.11	17.31	16.82	16.50	17.63	17.53	17.65	16.88	17.00
5	14.00	14.77	16.20	17.11	17.36	16.74	16.50	17.62	17.52	17.61	16.94	16.98
6	13.92	14.80	16.23	17.11	17.40	16.64	16.40	17.59	17.51	17.66	16.96	16.97
7	14.00	14.80	16.32	17.11	17.43	16.50	16.30	17.56	17.49	17.63	17.00	17.10
8	14.20	14.80	16.36	17.12	17.46	16.38	16.20	17.50	17.48	17.59	17.04	17.13
9	14.21	14.85	16.40	17.09	17.48	16.28	16.10	17.46	17.50	17.52	17.01	17.18
10	14.24	14.92	16.46	17.05	17.50	16.18	15.96	17.52	17.58	17.47	17.01	17.21
11	14.24	14.97	16.50	17.02	17.50	16.10	15.80	17.52	17.61	17.47	17.12	17.19
12	14.24	15.04	16.53	17.00	17.50	16.04	15.67	17.50	17.55	17.46	17.18	17.18
13	14.28	15.07	16.67	16.97	17.50	16.02	15.50	17.49	17.56	17.44	17.26	17.15
14	14.30	15.10	16.71	16.94	17.48	15.95	15.36	17.50	17.56	17.40	17.32	17.08
15	14.31	15.15	16.74	16.91	17.45	15.88	15.28	17.48	17.55	17.40	17.36	17.02
16	14.34	15.19	16.80	16.89	17.45	15.90	15.27	17.50	17.52	17.42	17.34	16.97
17	14.34	15.20	16.83	16.86	17.42	15.88	15.33	17.50	17.57	17.42	17.33	16.91
18	14.36	15.19	16.86	16.84	17.41	15.98	15.31	17.50	17.51	17.44	17.35	16.84
19	14.36	15.19	16.92	16.82	17.39	16.07	15.35	17.60	17.50	17.41	17.36	16.91
20	14.37	15.19	16.93	16.81	17.36	16.11	15.50	17.60	17.54	17.36	17.42	16.91
21	14.38	15.30	16.92	16.83	17.29	16.13	15.65	17.58	17.53	17.36	17.39	16.85
22	14.40	15.32	16.90	16.82	17.26	16.14	15.87	17.70	17.63	17.32	17.32	16.78
23	14.42	15.34	16.90	16.90	17.28	16.20	16.15	17.66	17.65	17.30	17.28	16.82
24	14.56	15.36	16.94	16.93	17.27	16.24	16.26	17.62	17.68	17.28	17.23	16.84
25	14.60	15.40	16.97	16.97	17.24	16.26	16.46	17.64	17.68	17.22	17.14	16.84
26	14.61	15.45	17.00	17.00	17.22	16.30	16.66	17.66	17.62	17.14	17.12	16.82
27	14.64	15.51	17.03	17.04	17.17	16.30	16.77	17.64	17.60	17.05	17.10	16.80
28	14.66	15.66	17.07	17.06	17.13	16.30	16.90	17.52	17.57	16.98	17.07	16.78
29	14.69	15.71	17.07	17.11		16.30	17.11	17.44	17.59	16.98	17.07	16.74
30	14.70	15.80	17.04	17.14	------	16.29	17.40	17.44	17.57	16.97	17.03	16.71
31	14.70	------	17.06	17.16	------	16.28	------	17.46	------	16.91	17.00	------
MAX	14.70	15.80	17.07	17.18	17.50	17.04	17.40	17.70	17.68	17.75	17.42	17.21
MIN	13.92	14.70	15.88	16.81	17.13	15.88	15.27	17.44	17.46	16.91	16.78	16.71
*	14,759	18,268	22,314	22,637	22,540	19,807	23,412	23,606	23,962	21,831	22,121	21,187
**	+1,208	+3,509	+4,046	+323	-97	-2,733	+3,605	+194	+356	-2,131	+290	-934

CAL YR: . . . . ** +13,471
WTR YR: . . . . ** + 7,636

* Contents, in millions of cubic feet, at end of month.
** Change in contents, in millions of cubic feet.

01041000 Kennebec River at Moosehead, Maine

LOCATION.--Lat 45°35'08", long 69°43'05", Somerset County, on right bank 700 ft (213 m) downstream from dam at East Outlet of Moosehead Lake and 0.2 mi (0.3 km) northwest of Moosehead.

DRAINAGE AREA.--1,266 sq mi (3,279 sq km).

PERIOD OF RECORD.--October 1919 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,015.53 ft (309.534 m) above mean sea level. Prior to Oct. 9, 1924, nonrecording gage on railroad bridge 300 ft (91 m) downstream at same datum.

AVERAGE DISCHARGE.--54 years, 1,909 cfs (54.06 cu m/s), 20.48 in/yr (520 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 11,500 cfs (326 cu m/s) May 23 (gage height, 8.37 ft or 2.551 m); minimum, 195 cfs (5.52 cu m/s) Sept. 17 (gage height, 2.32 ft or 0.707 m).
Period of record: Maximum discharge, 15,600 cfs (442 cu m/s) May 8, 1947 (gage height, 9.94 ft or 3.030 m); minimum, about 62 cfs (1.76 cu m/s) Apr. 7-15, 1923.

REMARKS.--Records excellent. Some water diverted down west channel through gates in dam at West Outlet. Flow regulated by Moosehead Lake (see sta 01040500, p. 54) and by Brassua Lake and First Roach Pond (see p. 64).

REVISIONS (WATER YEARS).--WSP 1301: 1928-50 (adjusted monthly runoff). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,540	930	357	1,010	2,100	4,540	949	7,800	5,630	3,120	3,620	2,770
2	2,850	930	365	1,680	1,800	4,420	498	7,880	4,300	6,140	3,270	2,760
3	2,960	930	364	2,140	274	3,890	498	7,920	4,150	6,620	1,250	2,750
4	2,910	683	365	2,130	285	3,840	2,290	7,930	3,500	6,600	932	2,770
5	2,850	578	1,200	2,130	287	4,520	4,770	7,940	3,480	6,780	252	1,480
6	1,650	2,000	3,470	1,160	290	4,780	5,250	8,310	3,470	8,340	657	521
7	1,130	2,440	2,360	462	290	4,690	5,170	8,430	3,480	7,290	824	238
8	617	1,050	1,880	1,320	290	4,610	5,100	7,930	2,890	7,360	1,700	235
9	1,960	666	1,250	2,120	295	4,150	5,400	6,910	1,530	5,410	1,810	235
10	3,030	615	896	2,110	923	3,900	6,810	5,850	939	3,560	1,840	1,320
11	2,290	296	1,370	2,090	2,240	3,850	6,880	6,130	3,060	1,860	1,100	2,100
12	1,280	296	1,920	2,080	2,910	3,810	6,650	5,110	3,440	1,180	814	1,820
13	1,000	296	1,940	2,060	2,750	3,780	6,490	5,020	2,800	1,520	395	3,030
14	727	296	1,740	2,050	2,740	3,740	6,160	4,720	2,190	1,740	1,030	3,640
15	546	662	920	2,050	2,730	3,150	4,000	4,380	2,120	1,430	1,450	3,010
16	757	1,440	927	2,030	2,710	2,480	1,840	4,130	2,110	1,860	2,080	2,990
17	1,220	2,580	930	2,020	2,710	1,400	2,020	4,130	2,120	802	1,370	1,940
18	1,230	1,890	930	2,000	2,700	241	4,330	4,140	2,050	1,730	760	2,080
19	940	1,490	2,580	1,990	2,680	739	3,320	5,190	1,290	1,790	678	2,260
20	874	707	3,810	1,080	3,580	1,080	1,330	5,720	1,300	2,090	1,560	2,770
21	910	715	3,780	1,370	3,320	1,080	596	5,480	1,930	2,080	2,630	3,900
22	920	856	2,740	1,330	2,910	515	606	8,310	2,360	1,770	2,930	2,380
23	940	856	1,140	917	2,920	235	3,040	11,300	1,970	1,700	2,920	1,910
24	980	861	586	712	2,900	418	5,240	9,700	1,970	1,830	2,880	2,750
25	990	865	586	263	2,870	547	5,430	7,530	3,620	2,840	1,590	1,720
26	1,000	585	721	268	3,410	1,270	6,090	7,390	3,590	3,310	908	2,340
27	810	350	955	279	3,840	1,740	8,250	8,280	2,200	3,560	2,050	2,340
28	1,380	350	2,060	283	3,810	1,510	9,990	8,660	2,160	1,930	2,830	2,330
29	1,870	354	2,840	285	------	1,380	8,370	7,700	1,000	1,000	2,800	2,320
30	1,860	357	1,800	285	------	1,730	7,630	6,950	1,010	2,180	2,790	2,310
31	1,580	------	1,310	1,540	------	1,740	------	6,390	------	3,180	2,770	------
TOTAL	46,601	26,924	47,792	43,244	60,564	79,775	135,007	214,230	77,659	102,602	54,490	65,019
MEAN	1,503	897	1,542	1,395	2,163	2,573	4,500	6,911	2,589	3,310	1,758	2,167
MAX	3,030	2,580	3,810	2,140	3,840	4,780	9,990	11,300	5,630	8,340	3,620	3,900
MIN	546	296	357	263	274	235	498	4,130	939	802	252	235
MEAN*	589	1,404	1,893	1,589	2,125	2,719	8,367	7,233	2,888	2,385	1,947	1,896
CFSM*	.46	1.11	1.50	1.26	1.68	2.15	6.61	5.71	2.28	1.88	1.54	1.50
IN. *	.54	1.24	1.73	1.45	1.75	2.48	7.38	6.58	2.54	2.17	1.78	1.67

CAL YR 1972 TOTAL 687,332 MEAN 1,878 MAX 7,730 MIN 190 MEAN* 2,335 CFSM* 1.84 IN* 25.10
WTR YR 1973 TOTAL 953,907 MEAN 2,613 MAX 11,300 MIN 235 MEAN* 2,918 CFSM* 2.30 IN* 31.31

*Adjusted for change in contents in Brassua and Moosehead Lakes, First Roach Pond, and diversion through West Outlet.

01042500 Kennebec River at The Forks, Maine

LOCATION.--Lat 45°20'25", long 69°57'48", Somerset County, on right bank at The Forks, 0.4 mi (0.6 km) upstream from highway bridge and 0.7 mi (1.1 km) upstream from Dead River.

DRAINAGE AREA.--1,589 sq mi (4,116 sq km).

PERIOD OF RECORD.--September 1901 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft (173.440 m) above mean sea level. Prior to June 21, 1912, nonrecording gage, and June 21, 1912, to Oct. 17, 1919, water-stage recorder and nonrecording gage at highway bridge 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--72 years, 2,563 cfs (72.58 cu m/s), 21.90 in/yr (556 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,700 cfs (473 cu m/s) May 23 (gage height, 8.89 ft or 2.710 m); minimum daily, 328 cfs (9.29 cu m/s) July 29.

Period of record: Maximum discharge, about 23,700 cfs (671 cu m/s) June 18, 1917 (gage height, 10.1 ft or 3.08 m, former site and datum); minimum, 85 cfs (2.41 cu m/s) Sept. 3, 1953 (gage height, 1.02 ft or 0.311 m).

REMARKS.--Records excellent. Flow regulated by Moosehead Lake (see sta 01040500, p. 54), Brassua Lake, and Moxie, Indian, and First Roach Ponds (see p. 64). Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1902-4, 1906-8, 1912, 1914, 1919-20 (M), 1923 (M), 1926 (M), 1928-29 (M), 1936 (M), 1938 (M). WSP 1301: 1928-35 (adjusted monthly runoff). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,540	1,870	1,170	390	1,800	4,240	1,810	12,100	8,470	3,840	4,090	2,690
2	3,770	1,750	1,400	2,770	1,400	4,370	2,470	11,300	5,980	9,470	4,330	901
3	3,840	1,790	696	1,830	671	4,780	3,040	11,200	5,030	10,800	1,960	1,440
4	4,480	880	2,040	1,970	803	4,290	4,050	11,100	5,240	8,960	1,560	3,540
5	4,080	480	1,600	2,240	813	4,940	5,490	10,800	4,210	11,400	3,010	2,610
6	3,670	2,270	2,100	1,320	1,120	5,090	7,630	10,300	3,400	11,800	1,820	2,660
7	1,100	1,820	1,980	405	1,770	5,820	8,040	10,300	3,130	12,200	1,650	1,950
8	851	2,100	3,150	2,650	1,670	4,720	5,110	10,200	3,750	9,770	3,370	1,630
9	1,360	1,520	1,980	2,980	1,590	4,480	7,560	10,100	1,790	9,160	3,340	853
10	1,510	887	1,050	2,890	2,030	4,240	9,010	7,040	929	4,990	4,210	3,750
11	1,540	1,070	1,550	2,850	1,470	4,450	7,660	7,060	4,200	2,950	2,720	3,470
12	1,520	631	2,280	1,770	2,680	4,940	6,470	7,860	3,800	2,670	2,070	3,790
13	1,440	1,300	2,390	1,410	2,410	4,540	8,580	6,850	2,930	1,710	1,390	4,050
14	1,200	1,800	2,220	967	3,720	3,600	6,930	5,700	2,180	1,530	2,160	4,040
15	411	2,460	1,770	2,800	3,380	3,650	5,320	6,030	2,250	728	3,380	3,580
16	1,520	2,050	852	2,720	3,030	3,530	5,090	5,670	2,330	2,600	3,080	616
17	1,700	2,030	426	2,750	3,060	2,230	5,650	5,840	2,630	1,900	2,040	4,190
18	1,750	1,370	3,560	2,620	3,600	1,740	4,800	5,340	2,470	1,910	1,460	4,820
19	1,730	436	3,570	1,630	3,400	3,450	5,670	6,370	1,860	2,430	492	3,960
20	1,570	2,160	2,670	381	3,400	2,470	7,670	7,690	1,730	3,120	3,510	3,210
21	1,130	1,830	2,780	415	3,500	1,330	6,050	7,810	1,820	3,050	3,500	2,940
22	349	1,480	2,800	2,320	3,330	1,720	2,460	11,700	4,320	532	3,660	3,650
23	608	479	1,100	2,040	3,530	1,080	6,580	14,900	3,880	2,590	3,570	844
24	1,560	1,400	765	1,450	3,560	1,540	9,050	13,300	4,000	2,480	3,230	3,680
25	1,960	1,140	786	730	3,280	819	11,100	11,800	5,800	2,310	2,380	3,070
26	1,980	743	2,960	717	4,600	2,140	11,200	9,120	3,940	3,350	1,680	3,200
27	1,780	655	2,540	1,530	4,240	2,140	11,300	10,500	3,920	3,870	2,880	3,110
28	421	930	2,230	650	3,930	2,320	12,700	10,500	3,030	2,400	3,900	4,020
29	396	1,230	2,470	1,590	------	3,540	13,800	10,500	2,380	328	4,040	3,530
30	1,680	1,100	1,290	2,000	------	3,190	13,600	9,890	1,440	3,210	4,040	1,030
31	1,790	------	840	2,280	------	2,660	------	7,750	------	3,420	3,560	------
TOTAL	55,236	41,661	59,015	55,065	73,787	104,049	215,890	286,620	102,839	141,478	88,082	[illegible]
MEAN	1,782	1,389	1,904	1,776	2,635	3,356	7,196	9,246	3,428	4,564	2,841	2,894
MAX	4,480	2,460	3,570	2,980	4,600	5,820	13,800	14,900	8,470	12,200	4,330	4,820
MIN	349	436	426	381	671	819	1,810	5,340	929	328	492	616
MEAN*	779	1,779	2,269	1,808	2,508	3,596	11,370	9,476	3,645	3,542	2,801	2,463
CFSM*	.49	1.12	1.43	1.14	1.58	2.26	7.16	5.96	2.29	2.23	1.76	1.55
IN. *	.56	1.25	1.65	1.31	1.64	2.61	7.99	6.87	2.56	2.57	2.03	1.73

CAL YR 1972 TOTAL 871,544 MEAN 2,381 MAX 8,000 MIN 177 MEAN* 2,817 CFSM* 1.77 IN* 24.13
WTR YR 1973 TOTAL 1,310,546 MEAN 3,591 MAX 14,900 MIN 328 MEAN* 3,838 CFSM* 2.42 IN* 32.77

*Adjusted for change in contents in Brassua and Moosehead Lakes, and First Roach, Indian and Moxie Ponds.

01043500 Dead River near Dead River, Maine

LOCATION.--Lat 45°13'48", long 70°11'58", Somerset County, on right bank at foot of Long Falls, in T. 3, R. 4, 0.3 mi (0.5 km) upstream from Black Brook, and 0.5 mi (0.8 km) downstream from Flagstaff Lake Dam.

DRAINAGE AREA.--520 sq mi (1,347 sq km).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October to December 1939, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 1,037.32 ft (316.175 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 832 cfs (23.6 cu m/s), 21.73 in/yr (552 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 7,980 cfs (226 cu m/s) May 22 (gage height, 9.27 ft or 2.825 m); minimum daily, 1.1 cfs (0.031 cu m/s) Mar. 1-4.

Period of record: Maximum discharge, 18,000 cfs (510 cu m/s) Sept. 12, 1954 (gage height, 11.50 ft or 3.505 m); no flow part of July 31, 1949, when flow was completely shut off by cofferdam during construction of Flagstaff Lake Dam.

REMARKS.--Records good. Flow regulated by Flagstaff Lake (see sta 01043000 p. 64).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,140	757	4.1	1,530	1,040	1.1	3,360	198	1,300	1,350	60	1,090
2	516	547	3.6	1,340	819	1.1	1,300	185	1,890	4,450	62	1,080
3	3.9	2.2	2.2	1,090	2.2	1.1	8.0	1,350	1,850	3,640	62	408
4	3.6	2.2	2.2	1,080	2.2	1.1	8.0	2,770	1,260	2,350	94	56
5	3.6	458	2.0	1,080	2.1	421	8.0	2,730	1,050	2,840	68	53
6	810	1,490	2.4	1,020	2.1	895	910	2,700	1,030	3,810	67	53
7	1,410	1,730	2.8	1,080	2.0	895	2,240	2,130	1,020	2,850	67	54
8	504	643	2.6	1,070	2.0	895	800	1,280	365	1,740	66	54
9	3.3	487	2.4	1,070	2.0	895	8.0	1,050	69	960	67	54
10	3.0	3.9	2.2	1,070	1.9	895	8.0	952	85	369	293	54
11	264	2.6	2.2	1,060	1.9	886	8.0	971	516	278	763	54
12	1,160	2.4	2.2	1,050	1.9	1,110	8.0	971	692	462	1,080	54
13	1,380	2.2	2.2	1,060	1.8	1,180	1,350	990	691	561	574	54
14	1,640	2.2	2.2	1,060	1.6	981	2,250	990	441	662	76	54
15	1,600	341	2.4	1,050	1.6	1,090	720	1,030	275	563	75	53
16	1,830	757	2.4	1,050	1.5	3,340	8.0	1,000	560	555	67	54
17	1,980	722	2.4	1,040	1.5	5,070	1,670	1,060	724	542	316	54
18	1,910	705	2.4	1,040	1.5	8.0	1,340	1,050	678	550	1,350	58
19	1,950	690	290	1,040	1.3	2,100	185	2,010	1,500	567	1,450	57
20	1,940	682	757	389	1.3	4,870	179	2,330	1,460	875	1,080	56
21	1,860	674	739	20	1.3	5,280	158	3,040	791	1,060	397	55
22	1,790	658	739	2.5	1.3	4,760	447	6,800	738	1,050	382	63
23	1,120	643	1,230	2.5	1.2	4,250	2,090	5,640	1,690	1,040	371	59
24	705	628	601	2.5	1.2	4,350	4,130	4,400	1,990	733	698	58
25	1,030	614	6.0	2.5	1.2	4,200	5,400	2,720	2,320	67	1,170	181
26	1,000	205	249	2.5	1.2	5,040	6,300	1,820	2,420	66	1,160	60
27	1,450	3.6	748	2.5	1.2	5,280	6,640	1,800	296	312	478	60
28	1,860	2.4	748	2.5	1.2	4,710	4,330	1,820	83	1,170	53	61
29	1,790	2.2	1,030	500	------	4,180	410	730	400	1,180	53	61
30	1,710	4.8	1,560	1,040	------	3,760	228	75	1,070	494	54	61
31	1,120	------	1,540	1,040	------	3,480	------	96	------	61	407	------
TOTAL	35,486.4	13,464.7	10,281.9	23,956.5	1,901.2	74,825.4	46,501.0	56,688	29,254	37,207	12,960	4,223
MEAN	1,145	449	332	773	67.9	2,414	1,550	1,829	975	1,200	418	141
MAX	1,980	1,730	1,560	1,530	1,040	5,280	6,640	6,800	2,420	4,450	1,450	1,090
MIN	3.0	2.2	2.0	2.5	1.2	1.1	8.0	75	69	61	53	53
MEAN*	238	449	469	613	697	1,290	3,689	2,068	1,007	960	274	351
CFSM*	.46	.86	.90	1.18	1.34	2.48	7.09	3.98	1.94	1.85	.53	.68
IN. *	.53	.96	1.04	1.36	1.40	2.86	7.91	4.59	2.16	2.13	.61	.75

CAL YR 1972 TOTAL 262,262.5 MEAN 717 MAX 8,640 MIN 2.0 **MEAN*** 914 **CFSM*** 1.76 **IN*** 23.95
WTR YR 1973 TOTAL 346,749.1 MEAN 950 MAX 6,800 MIN 1.1 **MEAN*** 1,007 **CFSM*** 1.94 **IN*** 26.30

*Adjusted for change in contents in Flagstaff Lake.

01045000 Dead River at The Forks, Maine

LOCATION.--Lat 45°20'59", long 69°59'26", Somerset County, on left bank 1.5 mi (2.4 km) northwest of The Forks, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--872 sq mi (2,258 sq km).

PERIOD OF RECORD.--September 1901 to August 1907, March 1910 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.-- Water-stage recorder. Datum of gage is 600.5 ft (183.03 m) above mean sea level. Prior to September 29, 1923, nonrecording gage at site 100 ft (30 m) downstream at same datum.

AVERAGE DISCHARGE.--68 years (1902-7, 1910-73), 1,432 cfs (40.55 cu m/s), 22.30 in/yr (566 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 11,700 cfs (331 cu m/s) Apr. 28 (gage height, 6.93 ft or 2.112 m); minimum daily, 85 cfs (2.41 cu m/s) Oct. 5.

Period of record: Maximum discharge, 28,700 cfs (813 cu m/s) Mar. 20, 1936 (gage height, 10.54 ft or 3.213 m) from rating curve extended above 15,000 cfs (425 cu m/s); minimum daily since September 1923, 61 cfs (1.73 cu m/s) Dec. 23, 1968.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Flagstaff Lake (see sta 01043000, p. 64). Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: Drainage area. WSP 1231: 1913-15, 1916-17 (M), 1919-20 (M), 1922 (M). WSP 1301: 1904 (M), 1907, 1911-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	1,030	400	1,650	1,880	300	5,250	3,560	2,220	2,180	236	1,070
2	1,060	991	380	1,550	1,880	295	4,110	2,880	3,410	4,880	248	1,370
3	206	454	375	1,450	800	295	1,850	3,250	3,090	5,170	315	1,130
4	106	380	370	1,440	850	295	1,590	5,500	2,580	3,590	482	670
5	85	425	370	1,430	897	290	1,520	5,230	1,950	4,690	487	971
6	307	1,380	400	1,430	799	1,800	1,750	4,740	1,870	6,500	401	731
7	1,700	2,500	500	1,430	680	1,290	3,560	4,030	1,790	5,100	359	1,700
8	1,270	1,060	950	1,430	570	1,280	2,540	2,950	1,400	3,110	325	1,200
9	432	1,070	800	1,420	500	1,350	1,050	2,430	601	2,030	296	779
10	281	663	675	1,420	450	1,420	980	2,510	528	1,210	376	594
11	221	528	575	1,420	410	1,340	924	2,520	592	882	1,270	495
12	1,280	461	500	1,410	385	1,300	844	2,690	1,120	897	1,390	422
13	1,500	411	460	1,410	375	1,880	1,480	2,580	1,130	1,060	1,290	375
14	1,880	382	425	1,410	360	1,810	3,100	2,350	997	1,170	465	335
15	1,830	378	420	1,400	350	1,840	2,200	2,150	656	1,200	451	307
16	1,980	1,060	415	1,400	340	3,160	937	2,130	726	1,280	392	283
17	2,260	1,060	410	1,390	335	6,750	2,770	2,200	1,650	1,170	358	273
18	2,170	982	405	1,390	330	2,890	5,160	2,120	1,350	1,030	1,210	295
19	2,170	951	400	1,390	325	3,440	4,090	3,460	1,730	939	1,570	732
20	2,190	965	1,350	1,130	320	6,410	4,250	4,150	2,060	1,020	1,830	660
21	2,090	979	1,450	455	320	6,920	3,720	4,700	1,430	1,210	658	501
22	2,020	1,010	1,350	541	315	6,190	4,090	9,240	2,090	1,230	588	423
23	1,840	1,080	1,800	721	310	5,540	6,910	9,630	2,830	1,260	581	877
24	665	1,030	1,300	892	310	5,390	9,360	6,790	2,880	1,180	609	988
25	1,370	857	350	931	305	5,410	9,800	5,220	2,770	376	1,270	775
26	1,320	757	625	829	305	5,930	9,500	3,270	3,400	272	1,260	615
27	1,440	569	1,100	683	300	6,670	9,850	3,070	1,270	264	1,030	491
28	2,170	659	1,150	592	300	6,220	9,700	2,950	546	1,090	294	435
29	2,120	563	1,400	598	-------	5,670	6,550	2,570	521	869	230	390
30	2,150	474	1,800	1,650	-------	5,230	5,000	1,420	1,470	910	220	356
31	1,740	-------	1,750	1,790	-------	5,150	-------	1,320	-------	301	198	-------
TOTAL	43,143	25,109	24,655	38,082	15,301	103,755	124,435	113,610	51,457	58,070	20,689	20,243
MEAN	1,392	837	795	1,228	546	3,347	4,148	3,665	1,715	1,873	667	675
MAX	2,260	2,500	1,800	1,790	1,880	6,920	9,850	9,630	3,410	6,500	1,830	1,700
MIN	85	378	350	455	300	290	844	1,320	521	264	198	273
MEAN*	485	837	932	1,068	1,175	2,223	6,287	3,904	1,747	1,633	523	885
CFSM*	.56	.96	1.07	1.22	1.35	2.55	7.21	4.48	2.00	1.87	.60	1.01
IN. *	.64	1.07	1.23	1.41	1.41	2.94	8.04	5.16	2.23	2.16	.69	1.13

CAL YR 1972 TOTAL 510,265 MEAN 1,394 MAX 14,100 MIN 85 MEAN* 1,591 CFSM* 1.82 IN* 24.84
WTR YR 1973 TOTAL 638,549 MEAN 1,749 MAX 9,850 MIN 85 MEAN* 1,806 CFSM* 2.07 IN* 28.11

*Adjusted for change in contents in Flagstaff Lake.

01046500 Kennebec River at Bingham, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, on right bank at Bingham, 200 ft (60 m) downstream from highway bridge, 0.4 mi (0.6 km) downstream from Austin Stream, and 1.6 mi (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,720 sq mi (7,045 sq km).

PERIOD OF RECORD.--June 1907 to June 1910, October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 330.2 ft (100.64 m) above mean sea level. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

AVERAGE DISCHARGE.--45 years (1907-8, 1930-73), 4,347 cfs (123.1 cu m/s), 21.70 in/yr (551 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 33,100 cfs (937 cu m/s) Apr. 28 (gage height, 12.10 ft or 3.688 m); minimum daily, 1,590 cfs (45.0 cu m/s) Nov. 27.

Period of record: Maximum discharge, 58,800 cfs (1,670 cu m/s) Mar. 20, 1936 (gage height, 14.44 ft or 4.401 m), from rating curve extended above 30,000 cfs (850 cu m/s) on basis of computations of flow at Wyman Dam plus inflow; minimum daily, 110 cfs (3.12 cu m/2) Dec. 25, 1947.

REMARKS.--Records excellent. Flow regulated by Moosehead Lake (see sta 01040500, p. 54), Brassua and Flagstaff Lakes, First Roach, Indian, Moxie, and Wyman Ponds (see p. 64). Considerable diurnal fluctuation caused by powerplant above station. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 1271: 1951 (M). WSP 1301: 1936 (M). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,260	2,830	2,7[illegible]	2,820	3,300	4,310	8,230	16,400	10,200	7,420	3,820	4,080
2	3,710	2,830	2,900	3,240	2,630	4,520	9,110	13,700	9,710	16,600	3,880	3,830
3	3,770	2,770	2,670	3,320	4,100	4,530	8,520	14,800	8,410	17,100	3,440	3,680
4	3,680	2,640	2,470	3,200	3,260	4,520	8,400	17,600	8,130	12,500	5,060	4,050
5	3,760	2,610	2,720	3,330	2,490	5,080	8,050	16,300	7,180	18,400	7,800	4,030
6	3,870	2,690	2,420	3,110	2,690	5,480	8,140	15,200	5,600	22,700	4,040	4,630
7	3,560	3,030	2,410	3,180	2,770	5,430	8,140	14,600	4,830	19,300	3,000	4,910
8	3,940	3,160	2,560	3,480	2,790	5,530	8,080	12,700	4,970	12,800	3,690	4,790
9	2,910	2,090	2,350	3,340	2,780	5,990	7,990	11,800	4,020	11,300	3,990	4,150
10	2,800	2,800	2,280	3,560	2,710	5,710	8,210	10,000	3,450	7,140	4,140	3,840
11	2,720	2,460	2,510	3,300	3,340	5,900	8,210	9,980	3,880	4,560	6,760	3,800
12	2,943	2,410	2,490	3,650	3,170	6,220	8,170	10,400	3,370	4,120	4,510	4,020
13	2,790	2,080	2,510	3,350	3,060	6,810	8,080	10,400	3,450	3,400	4,200	3,940
14	2,710	2,590	2,580	3,360	3,160	6,370	8,230	8,530	3,670	3,190	3,730	3,690
15	2,460	2,770	2,590	3,590	3,170	6,550	9,180	8,460	4,130	3,500	3,740	3,790
16	3,200	2,570	2,660	3,080	3,370	7,310	8,100	8,490	3,550	3,610	3,780	3,460
17	3,380	2,740	2,580	3,320	3,850	7,750	8,330	7,220	3,970	3,050	3,740	3,930
18	3,430	2,750	3,100	3,040	3,790	8,660	11,520	7,080	4,230	3,420	3,250	3,810
19	3,440	2,680	3,210	3,170	3,500	7,940	13,000	11,100	4,090	3,620	3,230	4,020
20	3,030	2,640	3,350	2,950	3,670	8,120	13,400	12,000	4,100	3,720	3,940	3,960
21	2,870	2,450	3,150	2,900	3,530	8,440	12,500	13,800	3,910	3,260	3,970	4,280
22	2,650	2,460	3,260	2,810	3,530	8,340	9,600	22,900	5,440	3,090	3,840	4,130
23	3,230	2,520	2,710	2,520	3,600	8,290	13,500	27,300	8,250	3,710	3,950	3,470
24	3,160	2,690	2,320	1,940	3,740	8,170	22,800	21,600	7,830	3,660	3,880	4,330
25	3,030	2,450	2,640	2,660	3,830	8,290	21,930	17,600	7,360	3,660	3,510	4,100
26	3,010	2,370	3,030	2,570	3,830	8,360	20,400	12,300	7,580	3,670	3,570	4,230
27	2,970	1,590	3,490	2,420	3,960	8,380	21,530	13,400	5,840	3,700	3,810	3,810
28	2,960	1,730	3,220	2,230	4,100	8,380	29,100	13,000	5,090	2,950	3,840	3,890
29	3,050	3,210	3,160	2,190	------	8,350	24,700	13,600	4,270	3,210	3,980	3,530
30	2,720	2,890	2,790	3,380	------	8,360	21,200	10,600	4,220	3,810	3,900	3,390
31	2,630	------	2,740	3,170	------	7,820	------	9,510	------	3,880	3,920	------
TOTAL	97,640	77,500	85,660	94,180	93,690	213,910	376,240	412,370	164,730	220,050	125,910	119,540
MEAN	3,150	2,583	2,763	3,038	3,346	6,900	12,540	13,300	5,491	7,098	4,062	3,985
MAX	3,940	3,210	3,490	3,650	4,100	8,660	29,100	27,300	10,200	22,700	7,800	4,910
MIN	2,460	1,590	2,280	1,940	2,490	4,310	7,990	7,080	3,370	2,950	3,000	3,390
MEAN*	1,289	2,950	3,284	2,911	3,840	6.061	18,840	13,780	5,685	5,821	3,922	3,691
CFSM*	.47	1.08	1.21	1.07	1.41	2.23	6.93	5.07	2.09	2.14	1.44	1.36
IN. *	.55	1.20	1.40	1.23	1.47	2.57	7.73	5.84	2.33	2.47	1.66	1.52

CAL YR 1972 TOTAL 1,535,620 MEAN 4,196 MAX 3,940 MIN 960 MEAN* 4,829 CFSM* 1.78 IN* 24.13
WTR YR 1973 TOTAL 2,081,420 MEAN 5,703 MAX 29,100 MIN 1,590 MEAN* 6,006 CFSM* 2.21 IN* 29.97

*Adjusted for change in contents in Brassua, Moosehead, and Flagstaff Lakes, and First Roach, Indian, Moxie and Wyman Ponds.

01047000 Carrabassett River near North Anson, Maine

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, on left bank 3.4 mi (5.5 km) upstream from Mill Stream and North Anson.

DRAINAGE AREA.--354 sq mi (917 sq km).

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft (92.45 m) above mean sea level. November 1, 1901, to May 5, 1907, nonrecording gage 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--52 years (1902-6, 1925-73), 700 cfs (19.82 cu m/s), 26.85 in/yr (682 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,900 cfs (309 cu m/s) Apr. 28 (gage height, 11.83 ft or 3.606 m); maximum gage height, 13.19 ft (4.020 m) Mar. 18 (backwater from ice); minimum discharge, 92 cfs (2.61 cu m/s) Oct. 1, 6, 7 (gage height, 2.81 ft or 0.856 m).
Period of record: Maximum discharge, 30,800 cfs (872 cu m/s) Mar. 19, 1936 (gage height, 21.17 ft or 6.453 m); minimum 18 cfs (0.51 cu m/s) Oct. 29, 1929 (gage height, 2.02 ft or 0.616 m).
REVISIONS.--The maximum discharge for the water year 1951 has been revised to 20,100 cfs (569 cu m/s) Apr. 4, 1951 (gage height, 16.98 ft or 5.176 m), superseding figure published in WSP 1201 and 1721.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flows by mills above station. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 851: Drainage area. WSP 1231: 1904-7, 1928 (M), 1932 (M), 1936 (M), 1938 (M), 1944 (M), 1950 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	348	883	330	500	295	2,100	2,950	1,360	6,150	154	137
2	125	318	765	330	530	290	2,300	2,120	1,120	3,220	240	277
3	108	466	700	335	950	285	2,190	1,870	918	2,210	758	228
4	100	509	645	330	1,500	280	2,030	2,100	753	2,070	616	207
5	95	431	605	325	1,200	290	1,800	1,620	650	3,140	1,200	191
6	93	377	660	320	1,000	310	1,630	1,330	587	5,720	886	207
7	113	346	1,500	315	850	300	1,510	1,040	540	2,960	512	470
8	2,070	400	1,200	310	750	340	1,420	903	436	1,780	325	384
9	1,320	1,520	970	305	680	600	1,300	929	397	1,150	277	279
10	896	1,990	805	300	620	780	1,200	1,370	390	649	254	223
11	614	1,450	700	300	550	710	1,100	1,710	349	518	493	188
12	463	1,110	600	295	525	700	950	2,430	325	594	817	155
13	272	865	540	290	505	1,050	822	1,720	500	533	606	149
14	258	685	500	290	495	1,250	793	1,270	700	501	385	135
15	247	587	475	290	450	1,150	934	1,050	540	465	428	130
16	234	468	455	285	445	1,200	1,310	1,110	1,200	421	433	131
17	226	340	440	285	420	1,950	2,810	1,080	2,300	347	327	125
18	220	379	425	285	405	6,000	4,130	1,010	1,500	313	280	133
19	208	369	410	285	390	3,900	4,340	2,350	725	290	307	389
20	195	446	395	295	375	2,500	4,100	1,700	540	301	300	308
21	184	815	380	375	365	1,770	3,160	4,220	440	269	250	231
22	181	651	375	700	360	1,510	3,500	4,670	538	257	223	206
23	202	550	360	900	360	1,350	5,410	3,270	955	224	208	724
24	342	530	355	1,400	340	1,240	4,020	2,090	882	201	145	571
25	354	516	350	1,100	320	1,320	2,750	1,550	700	183	129	404
26	319	1,060	350	900	315	1,700	2,120	1,280	594	172	123	318
27	280	3,560	345	760	305	1,310	1,740	1,090	532	159	119	255
28	255	2,190	340	670	300	1,530	8,010	1,010	661	226	128	229
29	322	1,660	335	500	------	1,400	7,830	1,330	874	218	147	197
30	489	1,180	330	555	------	1,390	4,860	1,190	2,590	183	132	177
31	423	------	325	525	------	1,670	------	1,080	------	163	119	------
TOTAL	11,318	26,117	17,518	14,585	15,835	40,870	82,239	54,442	24,616	35,597	11,321	7,778
MEAN	365	871	565	470	566	1,318	2,741	1,756	821	1,152	365	259
MAX	2,070	3,560	1,500	1,400	1,500	6,000	8,010	4,670	2,590	6,150	1,200	724
MIN	93	319	325	285	300	280	793	903	325	163	119	125
CFSM	1.03	2.46	1.60	1.33	1.60	3.72	7.74	4.96	2.32	3.25	1.03	.73
IN.	1.19	2.74	1.84	1.53	1.66	4.29	8.64	5.72	2.59	3.75	1.19	.82

CAL YR 1972 TOTAL 321,285 MEAN 878 MAX 6,810 MIN 82 CFSM 2.48 IN 33.76
WTR YR 1973 TOTAL 342,336 MEAN 938 MAX 8,010 MIN 93 CFSM 2.65 IN 35.97

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	-	-	7,500	7-01	1100	11.18	9,720
4-28	1100	11.83	10,900	7-06	0400	9.98	7,640
5-21	1800	9.95	7,590				

01048000 Sandy River near Mercer, Maine

LOCATION.--Lat 44°42'26", long 69°56'21", Somerset County, on right bank 0.9 mi (1.4 km) upstream from Bog Stream, 2.1 mi (3.4 km) north of Mercer, and 8.6 mi (13.8 km) upstream from mouth.

DRAINAGE AREA.--514 sq mi (1,331 sq km)

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 197.1 ft (60.08 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 940 cfs (26.62 cu m/s), 24.83 in/yr (631 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,600 cfs (329 cu m/s) May 4 (gage height, 9.51 ft or 2.899 m); maximum gage height, 14.52 ft (4.426 m) Mar. 18 (backwater from ice); minimum discharge, 123 cfs (3.48 cu m/s) Oct. 1 (gage height, 2.83 ft or 0.863 m).

Period of record: Maximum discharge, 38,600 cfs (1,090 cu m/s) Mar. 19, 1936 (gage height, 16.75 ft or 5.105 m), from rating curve extended above 13,000 cfs (368 cu m/s) on basis of records for stations on Kennebec River at Bingham and Waterville, Carrabassett River near North Anson, and Sebasticook River near Pittsfield; maximum gage height, 18.89 ft (5.758 m) Feb. 12, 1970 from floodmark (backwater from ice); minimum discharge, 32 cfs (0.91 cu m/s) Sept. 22-26, 1939 (gage height, 2.15 ft or 0.655 m).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: 1933. WSP 801: Drainage area. WSP 1231: 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	570	1,270	540	760	440	3,310	3,770	2,030	8,350	282	182
2	144	499	1,100	600	780	425	3,850	2,850	1,690	5,390	300	322
3	155	792	1,030	620	1,200	415	3,890	2,470	1,310	2,820	1,280	331
4	141	1,070	990	615	2,100	410	3,770	2,620	1,120	3,340	1,080	265
5	133	857	965	600	1,750	435	3,420	2,270	1,020	5,140	1,390	220
6	131	693	1,030	580	1,500	460	3,230	1,840	934	5,410	993	243
7	159	610	1,480	565	1,350	460	3,040	1,610	885	2,960	660	870
8	1,970	565	1,780	550	1,180	520	2,750	1,430	865	1,920	608	635
9	1,330	1,990	1,440	540	1,070	820	2,510	1,320	827	1,470	489	436
10	728	3,090	1,220	530	960	1,100	2,240	2,050	933	1,160	420	332
11	525	1,800	1,060	525	910	1,000	2,050	2,140	752	1,010	562	272
12	425	1,360	945	520	870	1,000	1,810	3,230	667	912	529	243
13	392	1,120	865	515	840	1,450	1,550	2,500	1,070	768	409	216
14	382	989	810	515	810	1,700	1,530	1,860	1,370	708	379	218
15	345	936	770	510	790	1,550	1,650	1,550	961	705	431	212
16	314	819	740	510	750	1,650	2,130	1,620	940	662	479	208
17	296	662	700	510	710	3,600	3,530	1,740	4,070	583	431	205
18	281	641	675	510	680	7,800	5,130	1,470	2,270	507	345	216
19	267	601	650	510	640	5,600	5,070	2,780	1,380	458	330	482
20	250	820	625	540	610	4,310	5,000	2,290	1,040	422	370	529
21	236	1,530	610	630	590	3,210	3,770	4,390	857	414	292	365
22	225	993	600	980	575	,540	3,570	7,850	1,180	452	246	300
23	250	790	585	1,130	565	1,250	5,690	4,700	2,560	394	226	545
24	457	763	570	1,850	545	2,240	4,970	2,940	1,710	340	215	843
25	569	707	560	1,530	520	2,580	3,160	2,280	1,200	305	195	533
26	507	1,670	550	1,300	495	3,390	2,490	1,940	970	279	175	407
27	437	5,780	540	1,120	475	3,320	2,100	1,680	864	263	162	342
28	384	2,920	535	1,000	460	2,660	8,110	1,520	1,050	296	213	300
29	470	2,500	530	910	------	2,410	9,020	2,110	1,540	422	348	258
30	831	1,840	520	840	------	2,370	6,060	1,990	3,140	680	268	226
31	734	------	525	800	------	2,670	------	1,700	------	351	208	------
TOTAL	13,593	39,977	26,270	22,995	24,485	64,785	110,400	76,510	41,205	48,891	14,315	10,756
MEAN	438	1,333	847	742	874	2,090	3,680	2,468	1,374	1,577	462	359
MAX	1,970	5,780	1,780	1,850	2,100	7,800	9,020	7,850	4,070	8,350	1,390	870
MIN	125	499	520	510	460	410	1,530	1,320	667	263	162	182
CFSM	.85	2.59	1.65	1.44	1.70	4.07	7.16	4.80	2.67	3.07	.90	.70
IN.	.98	2.89	1.90	1.66	1.77	4.69	7.99	5.54	2.98	3.54	1.04	.78

CAL YR 1972 TOTAL 448,026 MEAN 1,224 MAX 10,000 MIN 117 CFSM 2.38 IN 32.43
WTR YR 1973 TOTAL 494,182 MEAN 1,354 MAX 9,020 MIN 125 CFSM 2.63 IN 35.77

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	0700	7.76	6,970	5-22	0300	8.88	9,860
3-18	-	-	8,000	7-01	1900	9.51	11,600
4-23	1600	7.62	6,640	7-06	1200	7.75	6,950
4-28	2000	9.43	11,500				

01049000 Sebasticook River near Pittsfield, Maine

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, on right bank 1.7 mi (2.7 km) upstream from Twentyfivemile Stream, and 5.0 mi (8.0 km) south of Pittsfield.

DRAINAGE AREA.--579 sq mi (1,500 sq km).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft (40.81 m) above mean sea level.

AVERAGE DISCHARGE.--44 years (1929-73), 933 cfs (26.42 cu m/s), 21.88 in/yr (556 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,040 cfs (143 cu m/s) Mar. 30 (gage height, 7.34 ft or 2.237 m); maximum gage height, 7.57 ft (2.307 m) Feb. 7 (backwater from ice); minimum daily discharge, 126 cfs (3.57 cu m/s) Aug. 30.

Period of record: Maximum discharge, 14,400 cfs (408 cu m/s) Mar. 22, 1936 (gage height, 13.18 ft or 4.017 m); minimum daily, 4.5 cfs (0.13 cu m/s) Nov. 10, 1956.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by dam 0.4 mi (0.6 km) upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond (combined capacity, about 2,345,000,000 cu ft or 66,410,000 cu m).

REVISIONS.--WSP 1271: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	732	2,330	670	1,260	700	2,770	3,850	2,080	2,000	205	162
2	395	696	2,230	670	1,230	680	2,880	3,720	1,990	3,030	225	161
3	390	897	2,050	700	1,300	660	3,220	3,400	1,830	3,680	293	161
4	381	1,140	1,830	710	1,500	650	3,570	3,070	1,640	3,840	302	188
5	367	1,150	1,580	710	1,800	660	3,930	2,740	1,450	4,270	509	284
6	354	1,070	1,460	700	2,150	670	4,060	2,430	1,290	4,530	386	619
7	383	1,010	1,630	680	2,250	700	4,000	2,130	1,150	4,820	345	883
8	718	951	1,750	675	2,180	780	3,830	1,860	1,050	4,550	314	954
9	875	1,190	1,820	670	2,050	1,020	3,600	1,620	974	4,300	291	916
10	859	1,620	1,870	660	1,950	1,350	3,370	1,520	904	3,950	274	837
11	810	1,800	1,810	650	1,860	1,500	3,170	1,540	835	3,450	262	747
12	762	1,850	1,620	650	1,800	1,750	2,950	1,700	696	2,650	249	674
13	765	1,800	1,450	645	1,730	2,210	2,630	1,790	636	2,100	237	607
14	719	1,690	1,320	640	1,670	2,520	2,400	1,790	605	1,700	227	548
15	660	1,580	1,240	640	1,560	2,680	2,230	1,720	578	1,380	208	503
16	592	1,450	1,150	635	1,430	2,860	2,130	1,680	470	1,180	200	460
17	536	1,290	1,060	635	1,290	3,310	2,080	1,660	518	1,000	192	420
18	499	1,150	1,000	630	1,150	4,160	2,030	1,610	470	860	186	394
19	456	1,020	940	630	1,050	4,750	1,970	1,610	403	780	187	318
20	426	1,050	890	660	950	5,020	2,020	1,650	359	705	200	392
21	395	1,340	850	800	890	4,900	2,090	1,810	326	635	187	455
22	373	1,430	810	1,010	860	4,550	2,120	2,250	312	585	214	421
23	384	1,370	780	1,200	860	4,090	2,140	2,900	315	552	168	534
24	441	1,180	750	1,500	850	3,670	2,080	3,250	308	491	180	561
25	461	1,040	730	1,730	820	3,390	1,980	3,230	302	452	175	547
26	475	1,130	700	1,750	790	3,290	1,870	3,000	296	421	172	512
27	462	1,720	695	1,700	750	3,300	1,770	2,610	297	415	134	489
28	446	2,040	680	1,600	720	3,160	2,170	2,320	315	330	134	466
29	549	2,270	680	1,480	———	2,980	2,960	2,260	374	246	127	433
30	759	2,340	670	1,380	———	2,870	3,610	2,180	665	222	126	400
31	779	———	670	1,310	———	2,800	———	2,140	———	208	144	———
TOTAL	16,872	40,996	39,045	28,720	38,700	77,630	81,630	71,040	23,438	59,332	7,053	15,046
MEAN	544	1,367	1,260	926	1,382	2,504	2,721	2,292	781	1,914	228	502
MAX	875	2,340	2,330	1,750	2,250	5,020	4,060	3,850	2,080	4,820	509	954
MIN	354	696	670	630	720	650	1,770	1,520	296	208	126	161

CAL YR 1972	TOTAL 458,694	MEAN 1,253	MAX 6,680	MIN 120
WTR YR 1973	TOTAL 499,502	MEAN 1,368	MAX 5,020	MIN 126

01049300 North Branch Tanning Brook near Manchester, Maine

LOCATION.--Lat 44°21'00", long 69°51'07", Kennebec County, on right bank 28 ft (8.5 m) upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft (550 m) upstream from mouth, and 1.8 mi (2.9 km) north of Manchester.

DRAINAGE AREA.--0.93 sq mi (2.41 sq km).

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (64.0 m), from topographic map.

AVERAGE DISCHARGE.--9 years (1965-73), 1.92 cfs (0.0544 cu m/s), 28.04 in/yr (712 mm/yr).

EXTREMES.--Current year: Maximum discharge, 88 cfs (2.49 cu m/s) Mar. 17 (gage height, 3.11 ft or 0.948 m); minimum, 0.15 cfs (0.004 cu m/s) Oct. 7 (gage height, 0.70 ft or 0.213 m).

Period of record: Maximum discharge, 97 cfs (2.75 cu m/s) Feb. 11, 1970 (gage height, 3.20 ft or 0.975 m); maximum gage height, 3.44 ft (1.049 m) Mar. 25, 1969 (backwater from ice); minimum discharge, 0.05 cfs (0.001 cu m/s) Aug. 21, 1970.

Maximum discharge known since September 1963, 104 cfs (2.95 cu m/s) Nov. 8, 1963 (gage height, 3.26 ft or 0.994 m) from crest-stage gage.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	.81	2.3	3.4	2.5	.96	5.7	2.6	3.3	12	.51	.22
2	.27	1.1	2.1	4.0	3.8	.92	22	2.2	2.6	5.2	2.4	.22
3	.21	3.8	1.9	2.0	13	.90	16	2.1	2.0	3.5	5.0	.33
4	.17	2.4	1.8	1.6	7.5	1.4	7.1	2.0	1.8	2.8	10	.27
5	.18	1.3	1.7	1.4	5.1	2.3	7.2	1.9	1.7	19	7.0	.22
6	.20	.89	3.8	1.3	4.0	1.6	7.1	1.8	1.5	6.7	2.6	.67
7	2.5	.74	10	1.1	3.4	1.5	5.1	1.7	1.5	4.2	1.7	1.5
8	5.6	.68	3.8	.95	3.0	6.0	3.6	1.5	1.5	3.2	1.2	.88
9	1.5	4.2	2.9	.83	2.6	7.3	3.0	1.7	1.8	2.8	1.0	.53
10	.80	2.2	2.5	.79	2.4	4.8	3.7	3.7	2.5	2.0	.89	.31
11	.65	1.3	2.2	.75	2.2	4.1	5.4	4.9	1.6	2.0	.74	.27
12	.54	.94	1.8	.71	2.1	12	3.6	4.1	1.3	1.3	.63	.24
13	.46	.76	1.6	.65	1.9	17	2.6	3.0	1.7	1.5	.50	.21
14	.41	.71	1.4	.73	1.8	15	2.5	2.1	1.8	3.1	.38	.20
15	.36	.82	1.3	.66	1.7	11	2.3	1.8	1.4	3.1	.29	.22
16	.32	.79	1.3	.66	1.6	14	2.3	4.6	4.7	2.6	.26	.21
17	.29	.66	1.2	.70	1.5	31	2.1	2.8	5.5	1.9	.31	.21
18	.30	.60	1.1	.76	1.4	33	2.0	3.0	1.8	1.5	.35	.21
19	.29	.60	1.1	1.1	1.3	14	1.8	3.5	1.4	1.3	.38	.32
20	.31	10	1.0	3.7	1.3	11	1.6	2.4	1.1	1.2	.35	.54
21	.29	4.0	.98	4.9	1.2	8.7	1.4	17	.90	1.9	.29	.52
22	.26	2.0	1.0	2.2	1.2	7.5	1.4	8.9	1.1	1.6	.27	.43
23	.36	1.2	1.0	12	1.2	7.9	1.7	5.7	2.3	1.1	.24	.90
24	.58	1.0	1.1	6.7	1.2	8.7	1.6	3.4	1.6	.85	.24	.65
25	.46	1.1	1.1	3.7	1.2	9.7	1.4	3.0	1.2	.72	.22	.50
26	.38	17	1.2	2.8	1.1	11	1.4	3.8	1.0	.66	.20	.39
27	.36	6.5	1.2	2.4	1.1	11	5.4	2.9	2.2	.54	.20	.34
28	.35	3.6	1.2	2.1	1.0	8.1	15	2.9	4.9	.68	.47	.30
29	3.2	4.0	.97	1.9	------	6.7	6.2	4.6	7.4	.68	.51	.27
30	3.6	2.6	.91	1.9	------	6.7	3.8	2.7	6.3	.61	.36	.24
31	1.4	------	.92	2.1	------	5.8	------	5.0	------	.57	.27	------
TOTAL	26.90	78.30	58.38	70.49	73.3	281.58	146.0	113.3	71.40	90.81	39.76	12.32
MEAN	.87	2.61	1.88	2.27	2.62	9.08	4.87	3.65	2.38	2.93	1.28	.41
MAX	5.6	17	10	12	13	33	22	17	7.4	19	10	1.5
MIN	.17	.60	.91	.65	1.0	.90	1.4	1.5	.90	.54	.20	.20
CFSM	.94	2.81	2.02	2.44	2.82	9.76	5.24	3.92	2.56	3.15	1.38	.44
IN.	1.08	3.13	2.34	2.82	2.93	11.26	5.84	4.53	2.86	3.63	1.59	.49

CAL YR 1972 TOTAL 829.84 MEAN 2.27 MAX 39 MIN .13 CFSM 2.44 IN 33.19
WTR YR 1973 TOTAL 1,062.54 MEAN 2.91 MAX 33 MIN .17 CFSM 3.13 IN 42.50

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	1300	2.33	31	4-02	1515	2.48	40
11-26	1430	2.81	62	5-21	0930	2.61	48
3-17	2400	3.11	88				

Reservoirs in Kennebec River basin

01038500 BRASSUA LAKE on Moose River, 4 mi (6 km) southwest of Rockwood, Maine, completed in 1928, for power, has usable capacity of 8,560,000 cu ft (242,400,000 cu m) between elevations 1,043.0 and 1,073.0 ft (317.91 and 327.05 m). Elevation record furnished by Kennebec Water Power Co.

01040000 FIRST ROACH POND on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 cu ft (26,560,000 cu m) between gage heights 1.0 and 8.0 ft (0.30 and 2.44 m). Gage-height record furnished by Kennebec Water Power Co.

01040500 MOOSEHEAD LAKE on Kennebec River (see p. 54).

01041500 INDIAN POND on Kennebec River, in T. 1, R. 6, Maine, 13 mi (21 km) downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 830,000,000 cu ft (23,510,000 cu m) in normal operating range between elevations 950.0 and 955.0 ft or 289.56 and 291.08 m (total capacity of pond, 3,150,000,000 cu ft or 89,210,000 cu m below elevation 955.0 ft or 291.08 m). Elevation record furnished by Central Maine Power Co.

01042000 MOXIE POND on Moxie Stream, 4.8 mi (7.7 km) east of The Forks, Maine, used for power, has usable capacity of 640,000,000 cu ft (18,120,000 cu m) between gage heights 6.0 and 14.0 ft (1.83 and 4.27 m). Gage-height record furnished by Kennebec Water Power Co.

01043000 FLAGSTAFF LAKE on Dead River, in T. 3, R. 4, Maine, 0.8 mi (1.3 km) upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 cu ft (341,300,000 cu m) between elevations 1,110.0 and 1,146.0 ft (338.33 and 349.30 m). Elevation record furnished by Kennebec Water Power Co.

01045500 WYMAN POND on Kennebec River, 1.5 mi (2.4 km) upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000.000 cu ft (74,480,000 cu m) in normal operating range between elevations 465.0 and 485.0 ft or 141.73 and 147.83 m (total capacity of pond, 9,080,000,000 cu ft or 257,100,000 cu m below elevation 485.0 ft or 147.83 m). Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	WYMAN POND
SEPT. 30, 1972	8,560	828	3,240	130	9,922	8,860
OCT. 31	5,679	0	3,186	0	7,494	8,990
NOV. 30	3,380	0	2,988	0	7,494	8,930
DEC. 31	168	0	3,132	0	7,862	8,980
JAN. 31, 1973	230	0	2,834	0	7,434	8,980
FEB. 28	138	0	2,715	0	8,956	8,960
MAR. 31	3,169	0	3,060	0	5,947	9,080
APR. 30	8,560	924	3,330	640	11,492	9,040
MAY 31	9,109	870	3,258	640	12,131	9,080
JUNE 30	9,195	1,008	3,222	658	12,213	8,940
JULY 31	8,938	732	3,132	676	11,570	8,900
AUG. 31	8,980	746	2,732	622	11,184	9,020
SEPT. 30	9,109	705	3,024	60	11,728	8,830

Note.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month. Gates removed and no usable storage now available in Spencer Lake, which previously was listed in this table.

01052500 Diamond River near Wentworth Location, N.H.

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, on left bank 1.0 mi (1.6 km) upstream from mouth and 1.6 mi (2.6 km) north of Wentworth Location.

DRAINAGE AREA.--153 sq mi (396 sq km).

RECORDS AVAILABLE.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage 1,275 ft (389 m), from topographic map.

AVERAGE DISCHARGE.--32 years, 342 cfs (9.685 cu m/s), 30.36 in/yr (771 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,200 cfs (119 cu m/s) Apr. 23 (gage height, 7.85 ft or 2.393 m); minimum, 37 cfs (1.05 cu m/s) Oct. 6, 7 (gage height, 1.49 ft or 0.454 m).

Period of record: Maximum discharge, 8,630 cfs (244 cu m/s) June 16, 1943 (gage height, 10.66 ft or 3.249 m), from rating curve extended above 3,900 cfs (110 cu m/s); minimum, 6.8 cfs (0.19 cu m/s) Aug. 27, 28, 1949, Sept. 1, 1952 (gage height, 0.81 ft or 0.247 m).

REMARKS.--Records excellent except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	124	185	375	640	135	1,090	990	918	2,340	67	67
2	81	123	172	725	1,050	130	1,140	898	649	1,290	181	60
3	57	336	193	575	2,100	130	797	1,200	496	895	240	60
4	47	473	239	375	1,900	130	627	1,780	407	813	196	56
5	42	269	257	295	1,100	130	674	1,060	370	1,170	154	53
6	39	203	354	255	750	150	557	771	337	669	148	494
7	45	178	941	225	550	140	460	674	297	465	94	834
8	239	179	593	210	400	275	414	568	269	354	78	329
9	177	528	454	190	320	650	365	541	237	276	78	190
10	131	587	360	175	280	530	351	554	280	225	79	155
11	95	369	280	170	250	460	335	544	218	333	364	128
12	86	289	209	160	225	700	297	695	264	270	240	112
13	123	263	236	150	215	1,200	280	635	450	203	132	99
14	116	250	322	145	205	1,000	266	500	321	185	100	88
15	120	218	291	140	195	850	300	414	262	162	101	95
16	129	166	254	135	190	800	502	475	629	210	89	100
17	132	133	225	135	180	1,500	1,490	492	1,340	151	73	92
18	154	147	210	135	175	2,500	2,350	405	581	126	62	268
19	113	133	200	145	170	1,680	2,630	690	368	112	64	839
20	86	136	190	300	160	829	2,570	642	278	102	59	342
21	76	133	185	1,020	160	580	2,040	1,120	231	150	50	248
22	81	112	180	900	155	492	2,630	1,690	1,020	112	49	244
23	103	121	170	1,250	150	426	3,860	1,050	587	88	191	1,560
24	258	140	165	1,750	150	406	3,120	691	366	76	112	734
25	322	131	160	1,400	145	395	1,880	568	367	67	69	412
26	208	138	155	1,200	140	480	1,360	490	395	64	55	299
27	157	503	155	1,000	140	519	1,030	424	294	71	53	242
28	134	346	150	850	135	467	1,830	423	278	293	261	211
29	151	248	150	770	------	472	2,560	634	289	136	226	188
30	199	165	150	710	------	507	1,680	667	2,050	101	113	168
31	153	------	150	660	------	793	------	588	------	76	86	------
TOTAL	3,948	7,141	7,935	16,525	12,230	19,456	39,485	22,873	14,848	11,585	3,864	8,767
MEAN	127	238	256	533	437	628	1,316	738	495	374	125	292
MAX	322	587	941	1,750	2,100	2,500	3,860	1,780	2,050	2,340	364	1,560
MIN	39	112	150	135	135	130	266	405	218	64	49	53
CFSM	.83	1.56	1.67	3.48	2.86	4.10	8.60	4.82	3.24	2.44	.82	1.91
IN.	.96	1.74	1.93	4.02	2.97	4.73	9.60	5.56	3.61	2.82	.94	2.13

CAL YR 1972 TOTAL 137,191 MEAN 375 MAX 4,450 MIN 29 CFSM 2.45 IN 33.36
WTR YR 1973 TOTAL 168,657 MEAN 462 MAX 3,860 MIN 39 CFSM 3.02 IN 41.01

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-23	1900	7.85	4,200				

01053500 Androscoggin River at Errol, N.H.

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, on right bank 0.4 mi (0.6 km) downstream from Errol Dam, 0.4 mi (0.6 km) northeast of Errol, and 0.6 mi (1.0 km) upstream from Clear Stream.

DRAINAGE AREA.--1,045 sq mi (2,707 sq km).

PERIOD OF RECORD.--January 1905 to current year. Monthly discharge only October 1922 to November 1943, published in WSP 1301. Prior to 1922, published as "at Errol Dam."

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft (374.081 m) above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft (1.52 m) higher.

AVERAGE DISCHARGE.--68 years, 1,884 cfs (53.35 cu m/s), 24.48 in/yr (622 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,500 cfs (297 cu m/s) July 2 (gage height, 7.47 ft or 2.277 m); minimum daily, 979 cfs (27.7 cu m/s) Jan. 23.

Period of record: Maximum daily discharge, 16,100 cfs (456 cu m/s) May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

Instantaneous maximum discharge not available prior to Dec. 9, 1943.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (see p. 76) with final regulation at Errol Dam.

COOPERATION.--Records prior to Dec. 9, 1943, furnished by Union Water Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,010	1,670	1,470	1,630	2,160	2,160	2,220	3,380	5,060	8,870	1,840	1,890
2	1,980	1,660	1,510	1,550	2,050	2,110	2,420	2,800	4,360	10,200	1,710	1,820
3	1,940	1,590	1,490	1,480	1,600	2,070	2,480	3,470	2,680	8,590	1,340	1,970
4	1,940	1,530	1,530	1,500	1,480	2,050	2,430	6,020	2,250	7,550	1,460	2,010
5	1,960	1,520	1,530	1,530	1,560	2,010	2,380	6,720	2,410	8,080	1,510	1,990
6	1,980	1,580	1,360	1,590	1,750	2,060	2,240	6,320	2,370	5,640	1,550	1,840
7	1,850	1,580	1,200	1,730	1,850	2,060	2,120	2,960	2,180	3,210	1,670	1,570
8	1,630	1,580	1,160	1,850	1,760	1,920	1,640	1,540	2,020	2,710	1,750	1,590
9	1,670	1,470	1,010	1,850	1,840	1,590	1,600	1,360	1,660	1,920	1,810	1,750
10	1,840	1,240	1,100	1,750	1,940	1,360	1,620	2,750	1,510	2,150	1,890	1,820
11	1,940	1,180	1,310	1,730	2,020	1,440	1,710	3,400	1,750	2,110	1,960	1,880
12	1,970	1,240	1,470	1,680	2,070	1,640	1,840	3,150	2,060	2,050	1,900	1,930
13	1,980	1,380	1,370	1,660	2,070	2,160	1,860	2,920	3,330	1,760	1,840	1,920
14	1,940	1,470	1,380	1,710	2,080	2,480	1,860	1,760	2,090	1,740	1,900	1,890
15	1,930	1,430	1,330	1,670	2,020	2,290	1,820	1,320	2,670	1,850	1,940	1,820
16	1,940	1,520	1,330	1,590	2,010	2,160	1,800	2,740	3,460	1,990	1,930	1,820
17	1,960	1,560	1,440	1,590	2,030	2,230	1,700	2,590	5,590	2,110	1,890	1,930
18	1,970	1,550	1,490	1,620	2,070	2,570	2,340	2,600	5,190	2,070	1,880	1,670
19	1,980	1,560	1,460	1,590	2,080	2,850	3,040	2,900	2,350	2,240	1,820	1,550
20	1,960	1,560	1,470	1,470	2,050	2,830	3,530	2,800	2,260	2,200	1,850	1,640
21	1,930	1,570	1,410	1,380	2,020	2,390	3,740	4,840	1,910	2,190	1,900	1,760
22	1,940	1,580	1,410	1,320	2,010	1,940	3,840	6,850	3,670	2,220	1,920	1,630
23	1,900	1,580	1,370	979	1,970	1,730	4,260	7,330	4,440	2,230	1,900	1,460
24	1,860	1,620	1,340	1,270	1,980	2,000	4,640	5,860	3,820	2,310	1,920	1,530
25	1,850	1,590	1,350	1,420	2,080	2,150	3,310	4,480	2,770	2,310	1,960	1,670
26	1,810	1,470	1,370	1,440	2,200	1,760	1,630	4,380	2,730	2,350	1,960	1,800
27	1,800	1,270	1,410	1,610	2,280	1,560	1,140	3,770	2,700	2,350	1,930	1,840
28	1,810	1,310	1,480	1,750	2,200	1,570	1,310	3,620	2,540	2,020	1,840	1,810
29	1,810	1,330	1,550	1,770	------	1,570	3,900	3,400	3,770	1,880	1,820	1,820
30	1,790	1,470	1,590	1,860	------	1,560	3,430	2,360	4,430	2,120	1,930	1,860
31	1,750	------	1,660	2,050	------	1,870	------	2,220	------	2,010	1,920	------
TOTAL	58,620	44,660	43,350	49,619	55,230	62,140	73,850	112,610	90,030	103,030	56,440	53,480
MEAN	1,891	1,489	1,398	1,601	1,973	2,005	2,462	3,633	3,001	3,324	1,821	1,783
MAX	2,010	1,670	1,660	2,050	2,280	2,850	4,640	7,330	5,590	10,200	1,960	2,010
MIN	1,630	1,180	1,010	979	1,480	1,360	1,140	1,320	1,510	1,740	1,340	1,460
MEAN*	383	1,209	1,277	1,487	1,387	2,898	7,316	4,217	3,093	2,073	533	1,185
CFSM*	.37	1.16	1.22	1.42	1.33	2.77	7.00	4.04	2.96	1.98	.51	1.13
IN. *	.42	1.29	1.41	1.64	1.38	3.19	7.81	4.66	3.30	2.28	.59	1.26

CAL YR 1972 TOTAL 695,870 MEAN 1,901 MAX 6,020 MIN 1,010 MEAN* 2,035 CFSM* 1.95 IN* 26.50
WTR YR 1973 TOTAL 803,059 MEAN 2,200 'MAX 10,200 MIN 979 MEAN* 2,251 CFSM* 2.15 IN* 29.23

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

01054000 Androscoggin River near Gorham, N.H.

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, on right bank at Pulsifer Rips, 2.2 mi (3.5 km) downstream from Dead River and 4.0 mi (6.4 km) upstream from Gorham.

DRAINAGE AREA.--1,363 sq mi (3,530 sq km).

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1922 to February 1929, published in WSP 1301. Prior to October 1928, published as "at Berlin."

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft (253.862 m) above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi (5 km) upstream at different datum.

AVERAGE DISCHARGE.--60 years, 2,446 cfs (69.27 cu m/s), 24.37 in/yr (619 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,500 cfs (326 cu m/s) July 2; minimum daily, 1,690 cfs (47.9 cu m/s) Dec. 17.
Period of record: Maximum daily discharge, 20,000 cfs (566 cu m/s) June 18, 1917, Apr. 30, 1923; minimum daily, 795 cfs (22.5 cu m/s) Mar. 15, 1948.

REMARKS.--Records excellent, except for period of no gage-height record, which are good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (see p. 76) with final regulation at Errol Dam 35 mi (56 km) upstream. Diurnal fluctuation caused by powerplant 0.8 mi (1.3 km) upstream.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,120	1,970	1,910	2,130	2,520	2,510	3,980	5,050	4,840	11,000	2,100	2,030
2	2,090	1,950	1,780	2,230	2,690	2,440	4,680	4,490	6,240	11,400	2,450	2,010
3	2,080	1,960	1,870	2,160	2,810	2,390	4,520	4,320	4,550	9,800	2,280	1,980
4	1,990	1,970	1,850	2,010	2,830	2,360	4,140	6,510	3,160	8,900	2,000	2,090
5	2,040	1,920	1,880	2,060	2,590	2,380	4,020	8,050	3,040	8,500	2,100	2,090
6	2,050	1,860	1,930	1,930	2,470	2,400	3,650	7,970	3,190	7,600	1,950	2,120
7	2,150	1,940	2,250	1,880	2,590	2,460	3,300	6,560	2,940	4,200	1,930	2,410
8	2,190	1,890	2,140	1,990	2,520	2,640	2,920	3,000	2,660	3,600	1,950	1,940
9	2,000	2,140	1,930	2,130	2,380	2,850	2,520	2,390	2,480	2,800	2,000	1,860
10	1,950	2,250	1,700	2,190	2,410	2,720	2,390	2,590	2,210	2,500	1,980	1,980
11	2,060	1,890	1,700	2,040	2,460	2,370	2,470	3,990	2,080	2,600	2,090	1,980
12	2,130	1,750	1,750	2,030	2,500	2,600	2,440	4,450	2,480	2,400	2,230	2,010
13	2,160	1,800	1,950	1,960	2,540	3,550	2,470	3,880	4,670	2,250	2,040	2,030
14	2,150	1,900	1,890	1,960	2,510	4,150	2,460	3,330	4,870	2,100	2,020	2,000
15	2,140	1,960	1,820	2,100	2,490	3,760	2,510	2,420	3,750	2,200	2,080	2,020
16	2,130	1,900	1,730	2,030	2,460	3,510	2,740	2,450	4,450	2,300	2,090	1,940
17	2,120	1,880	1,690	1,970	2,390	4,020	3,710	3,590	8,800	2,400	2,040	1,970
18	2,150	1,900	1,800	1,980	2,390	6,470	5,110	3,420	8,320	2,300	2,010	2,090
19	2,230	1,860	1,880	2,050	2,470	5,760	6,080	4,190	5,320	2,400	2,070	2,090
20	2,160	1,900	1,880	2,260	2,440	4,820	6,620	4,060	3,390	2,470	2,020	1,870
21	2,050	1,870	1,820	2,420	2,410	4,060	6,240	5,060	2,980	2,470	1,990	1,910
22	2,110	1,880	1,810	2,250	2,390	3,320	6,540	8,930	3,660	2,430	2,030	1,980
23	2,130	1,830	1,790	2,520	2,350	2,760	7,940	9,140	5,680	2,380	2,060	2,000
24	2,170	1,870	1,760	2,760	2,320	2,500	7,810	8,470	5,370	2,400	2,030	1,970
25	2,140	1,890	1,720	2,650	2,330	2,900	6,750	6,050	4,110	2,500	2,020	1,890
26	2,110	2,090	1,740	2,530	2,470	3,080	4,180	5,570	3,560	2,460	2,070	1,950
27	2,040	2,330	1,760	2,350	2,550	2,820	2,880	4,900	3,380	2,600	2,050	2,020
28	1,980	2,100	1,780	2,410	2,550	2,700	3,170	4,360	3,340	2,900	2,090	2,010
29	2,080	1,890	1,820	2,450	------	2,640	5,550	4,480	3,240	2,250	2,040	1,970
30	2,190	1,830	1,860	2,340	------	2,650	6,760	4,160	5,770	2,350	2,000	1,980
31	2,120	------	1,910	2,440	------	3,040	------	2,980	------	2,280	2,080	------
TOTAL	65,210	58,170	57,100	68,210	69,830	98,630	130,550	150,810	124,530	120,740	63,890	60,190
MEAN	2,104	1,939	1,842	2,200	2,494	3,182	4,352	4,865	4,151	3,895	2,061	2,006
MAX	2,230	2,330	2,250	2,760	2,830	6,470	7,940	9,140	8,800	11,400	2,450	2,410
MIN	1,950	1,750	1,690	1,880	2,320	2,370	2,390	2,390	2,080	2,100	1,930	1,860
MEAN*	596	1,659	1,721	2,086	1,908	4,075	9,206	5,449	4,243	2,644	773	1,408
CFSM*	.44	1.22	1.26	1.53	1.40	2.99	6.75	4.00	3.11	1.94	.57	1.03
IN. *	.50	1.36	1.45	1.76	1.46	3.45	7.53	4.61	3.47	2.24	.65	1.15

CAL YR 1972 TOTAL 923,920 MEAN 2,524 MAX 11,000 MIN 1,540 **MEAN*** 3,658 **CFSM*** 1.95 **IN*** 26.54
WTR YR 1973 TOTAL 1,067,860 MEAN 2,926 MAX 11,400 MIN 1,690 **MEAN*** 2,977 **CFSM*** 2.18 **IN*** 29.63

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.
Note.--No gage-height record July 1 to Aug. 9.

01054200 Wild River at Gilead, Maine

(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, on left bank 20 ft (6 m) upstream from highway bridge on U.S. Route 2, 1,800 ft (550 m) upstream from mouth, and 0.4 mi (0.6 km) west of Gilead.

DRAINAGE AREA.--69.5 sq mi (180 sq km).

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft (208.209 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 167 cfs (4.729 cu m/s), 32.63 in/yr (829 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,000 cfs (198 cu m/s) June 30 (gage height, 9.33 ft or 2.844 m); maximum gage height, 12.36 ft (3.767 m) Feb. 3 (backwater from ice); minimum discharge, 20 cfs (0.57 cu m/s) Sept. 5,6 (gage height, 2.16 ft or 0.658 m).

Period of record: Maximum discharge, 12,500 cfs (354 cu m/s) Nov. 3, 1966 (gage height, 12.49 ft or 3.807 m); minimum, 7.6 cfs (0.22 cu m/s) July 16, 1971 (gage height, 1.89 ft or 0.576 m).

Flood of Oct. 24, 1959 reached a stage of 15.6 ft (4.755 m), from floodmarks (discharge, 18,100 cfs or 513 cu m/s).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	78	179	125	130	89	460	462	286	1,900	47	24
2	31	74	162	245	600	89	661	459	236	648	96	22
3	25	188	147	175	2,500	88	396	551	199	459	302	22
4	23	165	131	140	487	89	310	542	179	328	185	21
5	22	111	144	120	200	100	290	367	181	845	118	21
6	21	94	541	110	170	96	242	305	179	505	78	94
7	309	87	780	100	155	92	224	280	165	292	64	120
8	594	98	283	95	140	210	219	254	149	212	54	48
9	130	374	210	92	135	420	209	328	130	170	49	34
10	81	316	175	90	130	294	201	701	122	145	49	29
11	64	236	150	88	125	208	208	512	106	138	62	25
12	58	175	135	87	120	539	177	471	105	122	52	25
13	61	157	150	86	115	842	170	388	125	111	41	23
14	58	153	140	86	110	417	161	303	147	249	39	22
15	58	141	130	85	110	287	197	261	110	185	42	22
16	59	120	120	85	105	360	414	358	613	139	54	24
17	55	110	110	90	105	1,670	1,130	314	814	112	43	24
18	55	105	105	125	100	1,840	1,210	480	290	98	36	41
19	50	101	100	145	98	545	1,320	752	199	95	32	108
20	44	137	97	165	96	352	890	402	159	85	30	49
21	40	190	93	500	95	269	702	2,260	136	128	28	35
22	43	118	90	1,280	94	232	1,620	1,690	138	97	27	30
23	42	110	88	600	93	211	1,590	621	163	76	27	99
24	49	105	86	275	92	207	855	430	129	69	25	67
25	50	105	84	220	91	243	633	347	119	61	22	52
26	49	275	81	190	90	355	499	302	112	58	22	42
27	45	736	79	175	90	373	594	265	101	58	21	35
28	44	301	77	160	90	294	2,590	255	472	61	43	31
29	58	222	76	150	------	272	1,300	322	1,140	55	40	28
30	191	165	76	140	------	282	635	255	4,830	50	27	26
31	101	------	76	130	------	373	------	260	------	46	24	------
TOTAL	2,561	5,347	4,895	6,154	6,466	11,738	20,107	15,497	11,834	7,597	1,779	1,243
MEAN	82.6	178	158	199	231	379	670	500	394	245	57.4	41.4
MAX	594	736	780	1,280	2,500	1,840	2,590	2,260	4,830	1,900	302	120
MIN	21	74	76	85	90	88	161	254	101	46	21	21
CFSM	1.19	2.56	2.27	2.86	3.32	5.45	9.64	7.19	5.67	3.53	.83	.60
IN.	1.37	2.86	2.62	3.29	3.46	6.28	10.76	8.29	6.33	4.07	.95	.67

CAL YR 1972 TOTAL 64,989 MEAN 178 MAX 1,810 MIN 15 CFSM 2.56 IN 34.79
WTR YR 1973 TOTAL 95,218 MEAN 261 MAX 4,830 MIN 21 CFSM 3.76 IN 50.97

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-07	2230	5.54	1,840	4-28	1800	7.21	3,840
2-03	-	-	5,000	5-21	1245	7.63	4,440
3-17	2230	7.82	4,730	6-16	2145	5.94	2,250
4-19	1745	5.62	1,920	6-30	0645	9.33	7,000
4-22	1745	5.90	2,210				

01054300 Ellis River at South Andover, Maine

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, on left bank 100 ft (30 m) upstream from covered bridge, at South Andover.

DRAINAGE AREA.--131 sq mi (339 sq km).

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft (188.976 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--10 years, 240 cfs (6.797 cu m/s), 24.88 in/yr (632 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,280 cfs (121 cu m/s) July 1 (gage height, 17.61 ft or 5.368 m); minimum, 16 cfs (0.45 cu m/s) Oct. 6.

Period of record: Maximum discharge, 5,630 cfs (159 cu m/s) Dec. 29, 1969 (gage height, 19.23 ft or 5.861 m); minimum, 14 cfs (0.40 cu m/s) part or all of each day Sept. 19-22, 1966, Aug. 19-21, 1970, Sept. 28, 29, 1972.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	54	265	205	310	120	755	807	440	3,680	66	36
2	22	50	300	235	310	115	875	636	350	1,960	73	73
3	20	76	260	240	485	115	779	590	285	1,120	199	64
4	20	112	250	215	722	115	618	673	255	1,060	138	47
5	18	86	250	195	640	120	586	553	235	974	117	41
6	17	74	260	180	518	130	528	457	220	968	95	43
7	22	68	350	160	460	130	456	404	210	664	81	77
8	152	65	470	155	400	155	421	354	205	498	71	60
9	88	222	400	150	350	275	386	332	200	398	65	45
10	57	354	310	140	300	358	350	441	240	330	61	39
11	44	223	260	135	255	330	326	441	180	290	58	36
12	38	174	220	130	225	342	289	490	176	251	58	35
13	37	143	225	130	195	672	258	420	277	218	56	33
14	38	130	220	125	175	702	244	358	358	206	51	30
15	37	120	210	125	160	594	260	311	258	190	50	32
16	39	100	195	125	155	548	363	333	326	173	50	33
17	38	87	190	135	150	692	758	356	1,170	153	49	32
18	36	81	185	150	145	2,080	1,300	323	640	136	48	35
19	35	71	180	170	140	1,390	1,410	717	418	125	84	89
20	31	81	175	240	140	760	1,410	573	318	113	64	62
21	29	128	170	440	135	530	985	903	260	114	51	48
22	29	119	170	420	135	427	1,120	1,800	1,150	108	45	43
23	30	119	165	569	130	360	1,810	942	914	95	42	71
24	43	95	165	855	130	350	1,380	618	588	85	41	77
25	51	77	160	714	130	368	826	484	446	78	38	59
26	48	153	160	596	125	485	628	406	360	73	35	50
27	42	740	160	509	125	537	530	356	298	71	34	44
28	39	424	160	450	120	473	1,340	318	327	102	38	40
29	46	295	155	403	------	441	2,260	363	431	101	46	36
30	82	275	155	360	------	421	1,290	356	1,550	81	39	34
31	69	------	175	325	------	533	------	328	------	73	34	------
TOTAL	1,317	4,796	6,970	8,981	7,265	14,668	24,511	16,443	13,085	14,488	1,977	1,444
MEAN	42.5	160	225	290	259	473	817	530	436	467	63.8	48.1
MAX	152	740	470	855	722	2,080	2,260	1,800	1,550	3,680	199	89
MIN	17	50	155	125	120	115	244	311	176	71	34	30
CFSM	.32	1.22	1.72	2.21	1.98	3.61	6.24	4.05	3.33	3.56	.49	.37
IN.	.37	1.36	1.98	2.55	2.06	4.17	6.96	4.67	3.72	4.11	.56	.41

CAL YR 1972 TOTAL 87,263 MEAN 238 MAX 2,600 MIN 14 CFSM 1.82 IN 24.78
WTR YR 1973 TOTAL 115,945 MEAN 318 MAX 3,680 MIN 17 CFSM 2.43 IN 32.92

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	1400	14.73	2,540	5-22	0400	13.83	2,100
4-29	0300	15.33	2,850	7-01	0500	17.61	4,280

01054500 Androscoggin River at Rumford, Maine

LOCATION.--Lat 44°32'33", long 70°32'50", Oxford County on left bank at upper powerplant of Rumford Falls Power Co. in Rumford, and 1.2 mi (1.9 km) upstream from Swift River.

DRAINAGE AREA.--2,067 sq mi (5,354 sq km).

PERIOD OF RECORD.--May 1892 to current year. Monthly discharge only October 1903 to September 1904, published in WSP 1301.

GAGE.--Nonrecording gages in pond above dam in in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

AVERAGE DISCHARGE.--81 years, 3,683 cfs (104 cu m/s), 24.20 in/yr (615 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum daily discharge, 36,600 cfs (1,037 cu m/s) July 1; minimum daily, 2,020 cfs (57.2 cu m/s) Nov. 26.

Period of record: Maximum discharge, 74,000 cfs (2,096 cu m/s) Mar. 20, 1936; minimum daily, 625 cfs (17.7 cu m/s) Mar. 27, 1911.

REMARKS.--Discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (see p. 76) with final regulation at Errol Dam about 84 mi (135 km) upstream.

COOPERATION.--Records furnished by Rumford Falls Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,340	2,390	2,620	2,450	3,110	2,970	7,270	10,200	5,790	36,600	2,460	2,250
2	2,250	2,280	2,390	3,250	3,400	2,890	9,980	8,340	8,000	24,800	2,710	2,480
3	2,170	2,630	2,750	3,020	7,260	2,840	9,030	7,930	6,680	19,600	3,960	2,190
4	2,210	2,680	2,740	2,790	6,770	2,840	7,580	9,700	4,550	16,700	3,500	2,190
5	2,120	2,500	2,280	2,720	5,210	2,980	7,300	11,100	3,990	17,400	2,890	2,310
6	2,020	2,270	2,800	2,650	4,030	3,060	6,510	10,800	3,960	16,400	2,560	2,460
7	2,510	2,300	6,210	2,060	3,780	3,010	5,840	10,000	3,820	12,900	2,420	2,810
8	4,490	2,320	3,960	2,160	3,680	3,360	5,380	6,100	3,500	9,440	2,370	2,510
9	2,920	3,710	3,500	2,310	3,490	4,580	4,630	4,410	3,260	7,400	2,380	2,080
10	2,370	4,160	3,410	2,520	3,290	4,640	4,260	5,570	3,200	3,920	2,380	2,070
11	2,320	3,390	2,960	2,520	3,300	3,650	3,890	6,390	2,840	3,400	2,400	2,150
12	2,350	2,830	2,240	2,400	3,200	4,210	3,690	7,200	2,750	3,300	2,480	2,150
13	2,430	2,600	2,660	2,330	3,280	7,790	3,530	6,450	4,270	3,200	2,310	2,150
14	2,420	2,570	2,840	2,300	3,250	7,100	3,510	5,550	6,600	3,330	2,030	2,140
15	2,340	2,690	2,620	2,370	3,250	5,970	3,720	4,070	4,510	3,310	2,110	2,180
16	2,360	2,480	2,240	2,470	2,950	5,500	5,270	3,990	7,470	3,090	2,370	2,160
17	2,340	2,210	2,180	2,410	3,250	12,000	9,890	4,830	15,600	2,940	2,190	2,020
18	2,320	2,240	2,100	2,440	2,710	21,500	13,400	5,660	12,100	2,890	2,290	2,270
19	2,380	2,200	2,520	2,550	2,830	13,400	14,600	8,590	8,440	2,680	2,260	2,540
20	2,340	2,590	2,560	3,670	3,120	9,270	14,200	7,420	5,050	2,860	2,200	2,300
21	2,230	2,620	2,530	4,800	3,150	7,060	12,300	14,600	4,020	2,980	2,140	2,120
22	2,250	2,150	2,420	3,890	3,370	5,970	15,000	20,000	4,450	2,950	2,100	2,150
23	2,330	2,220	2,480	6,080	3,020	5,110	18,600	16,000	6,980	2,890	2,190	2,470
24	2,440	2,420	2,650	7,130	2,920	4,710	15,500	13,100	6,900	2,760	2,250	2,390
25	2,400	2,540	2,670	5,280	2,730	4,840	12,300	10,000	5,580	2,700	2,030	2,270
26	2,390	6,180	2,430	4,380	2,880	6,110	8,950	8,060	4,430	2,600	2,120	2,210
27	2,270	8,890	2,390	3,890	2,960	5,210	6,590	7,370	4,040	2,600	2,120	2,240
28	2,200	5,020	2,350	3,580	3,000	5,260	16,200	6,540	4,620	2,740	2,250	2,270
29	2,350	4,020	2,290	3,430	------	4,900	17,300	6,760	7,300	2,900	2,290	2,190
30	2,730	3,270	2,250	3,060	------	4,800	14,000	6,570	24,500	2,480	2,130	2,110
31	2,560	------	2,120	3,200	------	5,630	------	5,510	------	2,530	2,120	------
TOTAL	75,150	92,370	84,160	100,110	98,870	184,160	280,220	258,890	189,310	226,260	74,010	67,840
MEAN	2,424	3,079	2,715	3,229	3,531	5,941	9,341	8,351	6,310	7,299	2,387	2,251
MAX	4,490	8,890	6,210	7,130	7,260	21,500	18,600	20,000	24,500	36,600	3,960	2,810
MIN	2,020	2,150	2,100	2,060	2,710	2,840	3,510	3,990	2,750	2,480	2,030	2,020
MEAN*	916	2,799	2,594	3,115	2,945	6,834	14,200	8,935	6,402	6,048	1,099	1,663
CFSM*	.44	1.35	1.26	1.51	1.42	3.31	6.87	4.32	3.10	2.93	.53	.80
IN. *	.51	1.51	1.45	1.74	1.48	3.82	7.66	4.98	3.46	3.38	.61	.90

CAL YR 1972 TOTAL 1,375,500 MEAN 3,758 MAX 23,200 MIN 1,560 MEAN* 3,892 CFSM* 1.88 IN* 25.64
WTR YR 1973 TOTAL 1,731,350 MEAN 4,743 MAX 36,600 MIN 2,020 MEAN* 4,794 CFSM* 2.32 IN* 31.50

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

01055000 Swift River near Roxbury, Maine

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, on left bank 0.2 mi (0.3 km) downstream from Philbrick Brook, 2.1 mi (3.4 km) downstream from Roxbury, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--95.8 sq mi (248 sq km).

PERIOD OF RECORD.--June 1929 to current year.

GAGE.--*Water-stage* recorder. Datum of gage is 615.67 ft (187.656 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 195 cfs (5.52 cu m/s), 27.64 in/yr (702 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,800 cfs (306 cu m/s) July 1 (gage height, 10.51 ft or 3.203 m); minimum, 15 cfs (0.425 cu m/s) Oct. 6, 7 (gage height, 1.23 ft or 0.375 m).
Period of record: Maximum discharge, 16,800 cfs (476 cu m/s) Oct. 24, 1959 (gage height, 12.87 ft or 3.923 m), from rating curve extended above 7,000 cfs (198 cu m/s); minimum, 3.8 cfs (0.11 cu m/s) Sept. 16, 17, 1948 (gage height, 0.93 ft or 0.283 m).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: 1934 (M). WSP 1301: Drainage area. WSP 1301: 1937-38 (M), 1942 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	120	167	110	260	81	641	521	814	3,730	36	21
2	35	100	144	215	526	79	646	474	305	890	93	31
3	24	270	142	146	1,260	77	444	532	232	1,010	309	30
4	20	185	142	100	693	76	371	726	199	1,110	135	23
5	19	145	129	95	380	83	375	451	185	1,200	146	20
6	17	115	166	85	283	95	312	348	174	905	76	52
7	57	92	437	82	274	92	260	304	168	423	54	107
8	270	82	255	79	255	110	263	272	156	289	46	48
9	112	350	145	77	225	500	241	287	162	216	40	31
10	67	304	115	75	200	389	224	495	210	176	38	25
11	48	207	99	74	185	209	211	515	138	162	48	23
12	45	161	100	73	175	210	185	564	141	141	47	20
13	49	142	105	77	165	776	176	389	415	121	36	18
14	45	137	96	72	160	284	172	296	311	123	32	17
15	46	124	91	73	150	289	207	253	190	115	40	19
16	60	99	89	75	145	339	399	324	550	101	40	22
17	83	97	88	81	140	775	1,020	297	1,110	80	34	20
18	171	92	87	89	130	1,560	1,300	401	392	69	32	56
19	113	84	86	105	130	622	1,400	729	246	64	38	166
20	74	116	85	620	120	384	1,110	407	188	58	32	64
21	66	132	84	700	115	267	916	1,550	281	87	26	42
22	142	110	83	961	110	245	1,950	1,090	2,540	66	24	37
23	233	108	82	964	105	229	2,300	583	1,170	49	25	200
24	139	92	82	730	95	240	1,140	399	463	40	23	105
25	102	84	81	372	93	286	816	316	306	38	19	64
26	86	470	81	285	90	405	614	274	256	37	18	47
27	79	773	81	228	87	424	479	240	209	38	17	39
28	74	229	80	200	84	355	2,140	247	321	101	84	34
29	90	240	80	164	------	310	1,560	395	485	64	52	29
30	210	171	79	175	------	331	828	302	2,420	57	28	26
31	140	------	79	170	------	561	------	351	------	38	23	------
TOTAL	2,847	5,573	3,660	6,967	6,638	10,623	22,314	14,332	14,447	11,593	1,691	1,436
MEAN	91.8	186	118	225	237	343	744	462	482	374	54.5	47.9
MAX	270	773	437	964	1,260	1,560	2,300	1,550	2,540	3,730	309	200
MIN	17	82	79	72	84	76	172	240	138	37	17	17
CFSM	.96	1.94	1.23	2.35	2.47	3.58	7.77	4.82	5.03	3.90	.57	.50
IN.	1.11	2.16	1.42	2.71	2.58	4.13	8.66	5.57	5.61	4.50	.66	.56

CAL YR 1972 TOTAL 76,727 MEAN 210 MAX 2,130 MIN 14 CFSM 2.19 IN 29.79
WTR YR 1973 TOTAL 102,121 MEAN 280 MAX 3,730 MIN 17 CFSM 2.92 IN 39.65

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-23	0200	6.12	3,030	6-22	0100	8.62	6,900
4-28	2100	6.08	2,990	7-01	0500	10.51	10,800
5-21	1400	6.26	3,200	7-05	1900	5.97	2,850

01055500 Nezinscot River at Turner Center, Maine

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, on left bank 500 ft (150 m) upstream from upper highway bridge at Turner Center, and 3.6 mi (5.8 km) upstream from mouth.

DRAINAGE AREA.--171 sq mi (443 sq km).

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft (84.213 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--32 years, 296 cfs (8.383 cu m/s), 23.51 in/yr (597 mm/yr).

EXTREMES.--*Current year: Maximum discharge, 3,280 cfs (92.9 cu m/s) Mar. 18 (gage height, 5.68 ft or 1.731 m);* minimum, 57 cfs (1.61 cu m/s) Oct. 1 (gage height, 1.36 ft or 0.415 m).

Period of record: Maximum discharge, 13,900 cfs (394 cu m/s) Mar. 27, 1953 (gage height, 11.18 ft or 3.408 m); minimum, 5.6 cfs (0.16 cu m/s) Aug. 29, 1956 (gage height, 0.72 ft or 0.219 m).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	251	597	250	440	175	738	1.000	684	1.540	134	65
2	71	225	654	335	460	175	1.180	745	554	1.960	199	64
3	86	329	618	300	800	170	1.810	614	458	1.270	549	65
4	87	381	578	260	1.370	175	1.630	544	386	809	659	65
5	86	323	423	245	1.250	200	1.470	489	324	1.500	778	64
6	82	274	511	225	950	215	1.380	424	300	1.660	583	76
7	116	237	773	210	770	230	1.270	401	289	1.200	380	216
8	381	213	1.140	200	630	300	1.140	360	281	782	357	235
9	405	439	865	190	530	450	978	334	254	553	431	150
10	284	716	607	185	440	530	858	516	232	423	286	110
11	222	590	520	180	385	485	791	628	207	412	251	93
12	188	456	450	175	345	480	702	807	197	342	262	85
13	182	372	425	170	320	850	601	821	221	286	208	77
14	179	318	400	165	305	1.220	56	677	321	307	166	72
15	165	296	360	160	295	1.130	551	551	269	392	170	70
16	148	272	335	165	285	1.030	607	551	272	352	199	68
17	136	233	310	165	275	1.300	756	602	808	282	189	71
18	124	225	300	185	260	2.680	871	552	791	220	156	91
19	113	203	290	250	250	2.930	836	819	523	189	134	155
20	106	326	280	400	235	1.910	733	781	371	172	119	144
21	99	571	270	820	230	1.260	617	1.070	271	255	109	113
22	95	449	260	870	225	946	538	1.850	278	267	101	96
23	102	389	250	1.070	220	825	495	1.610	647	205	95	109
24	138	321	245	1.300	205	722	449	1.060	529	162	89	121
25	151	307	240	950	200	776	394	782	380	139	81	110
26	140	590	235	770	190	956	349	627	309	125	75	97
27	127	1.810	230	650	185	1.070	339	521	282	120	70	87
28	117	1.540	225	570	180	932	992	457	355	134	72	79
29	169	1.080	220	510	------	792	1.460	564	438	180	81	71
30	330	825	220	470	------	719	1.340	619	676	218	79	63
31	319	------	220	440	------	703	------	674	------	165	70	------
TOTAL	5.006	14.561	13.051	12.835	12.230	26.336	26.431	22.050	11.907	16.621	7.132	2.982
MEAN	161	485	421	414	437	850	881	711	397	536	230	99.4
MAX	405	1.810	1.140	1.300	1.370	2.930	1.810	1.850	808	1.960	778	235
MIN	58	203	220	160	180	170	339	334	197	120	70	63
CFSM	.94	2.84	2.46	2.42	2.56	4.97	5.15	4.16	2.32	3.13	1.35	.58
IN.	1.09	3.17	2.84	2.79	2.66	5.73	5.75	4.80	2.59	3.62	1.55	.65

CAL YR 1972 TOTAL 127.468 MEAN 348 MAX 2.170 MIN 46 CFSM 2.04 IN 27.73
WTR YR 1973 TOTAL 171.142 MEAN 469 MAX 2.930 MIN 58 CFSM 2.74 IN 37.23

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	1200	4.60	1,930	5-22	1700	4.60	1,930
3-18	2400	5.68	3,280	7-02	0600	4.73	2,070
4-03	1400	4.53	1,850				

01057000 Little Androscoggin River near South Paris, Maine

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, on right bank 30 ft (9 m) upstream from Biscoe Falls, and 5 mi (8 km) upstream from South Paris.

DRAINAGE AREA.--76.2 sq mi (197 sq km).

PERIOD OF RECORD.--September 1913 to April 1924, October 1931 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft (120.238 m) above mean sea level. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years (1913-23, 1931-73), 137 cfs (3.880 cu m/s), 24.42 in/yr (620 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,150 cfs (60.9 cu m/s) July 1 (gage height, 7.40 ft or 2.256 m); minimum, 15 cfs (0.42 cu m/s) Oct. 6, 7 (gage height, 1.88 ft or 0.573 m).

Period of record: Maximum discharge, 8,000 cfs (227 cu m/s) Mar. 27, 1953 (gage height, 12.41 ft or 3.783 m), from rating curve extended above 2,800 cfs (79.3 cu m/s), verified by computation of flow over dam at South Paris; minimum, 1 cfs (0.028 cu m/s) Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

REMARKS.--Records excellent. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1301: 1915-23 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	77	230	118	140	73	380	419	286	1,770	33	26
2	21	72	230	161	155	72	607	311	230	955	160	33
3	18	153	200	137	544	72	635	266	188	549	738	34
4	17	150	176	122	673	73	525	243	161	401	1,480	29
5	16	115	159	122	460	80	498	216	152	623	768	26
6	16	94	180	103	317	89	464	200	144	611	390	67
7	22	79	450	83	259	87	449	182	139	376	246	315
8	170	76	355	76	230	136	434	163	126	257	343	135
9	113	266	276	75	200	248	383	172	107	200	233	82
10	76	330	241	74	163	266	339	349	97	150	178	59
11	57	230	205	73	152	230	306	352	77	134	186	43
12	45	174	175	72	139	323	264	423	72	112	144	34
13	49	140	180	66	136	640	230	330	108	93	108	28
14	50	122	170	64	129	560	226	257	174	159	94	24
15	43	112	142	67	126	405	264	218	115	196	102	22
16	39	100	140	68	126	363	356	264	197	152	115	21
17	37	86	134	68	112	702	545	269	648	115	91	20
18	34	83	119	74	103	1,750	603	255	333	88	74	37
19	32	79	125	86	102	861	533	467	235	77	62	82
20	30	154	115	189	102	572	441	323	172	67	56	43
21	29	241	106	383	100	408	339	647	137	223	50	31
22	29	160	109	276	100	320	292	970	187	152	38	34
23	34	125	112	486	99	284	284	639	568	102	42	160
24	60	107	109	643	97	303	243	408	317	73	39	105
25	53	99	107	423	88	369	210	297	226	59	33	67
26	46	360	106	311	84	494	186	252	184	50	30	50
27	41	948	106	250	76	502	190	224	157	48	27	43
28	38	502	103	216	72	390	738	216	200	53	36	39
29	62	412	92	176	------	336	851	349	284	45	39	33
30	128	292	87	161	------	309	619	284	757	38	32	30
31	99	------	88	159	------	333	------	276	------	33	28	------
TOTAL	1,526	5,938	5,127	5,382	5,084	11,649	12,444	10,241	6,778	7,961	5,995	1,752
MEAN	49.2	198	165	174	182	376	415	330	226	257	193	58.4
MAX	170	948	450	643	673	1,750	861	970	757	1,770	1,480	315
MIN	16	72	87	64	72	72	186	163	72	33	27	20
CFSM	.65	2.60	2.17	2.28	2.39	4.93	5.45	4.33	2.97	3.37	2.53	.77
IN.	.74	2.90	2.50	2.63	2.48	5.69	6.08	5.00	3.31	3.89	2.93	.86

CAL YR 1972 TOTAL 57,265 MEAN 156 MAX 1,150 MIN 13 CFSM 2.05 IN 27.96
WTR YR 1973 TOTAL 79,877 MEAN 219 MAX 1,770 MIN 16 CFSM 2.87 IN 39.00

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	0300	6.08	1,190	7-01	1000	7.40	2,150
3-18	0730	7.28	2,050	8-04	0700	7.00	1,840
5-21	2100	5.82	1,040				

01058500 Little Androscoggin River near Auburn, Maine

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, on right bank 100 ft (30 m) upstream from highway bridge at Littlefields, 3 mi (5 km) southwest of Auburn, and 4.6 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--328 sq mi (850 sq km).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 215 ft (65.5 m), from topographic map.

AVERAGE DISCHARGE.--33 years, 559 cfs (15.83 cu m/s), 23.14 in/yr (588 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,130 cfs (117 cu m/s) Mar. 19 (gage height, 7.38 ft or 2.249 m); minimum daily, 143 cfs (4.05 cu m/s) Oct. 2, 3.

Period of record: Maximum discharge, 16,500 cfs (467 cu m/s) Mar. 28, 1953 (gage height, 14.76 ft or 4.499 m); minimum daily, 14 cfs (0.40 cu m/s) Oct. 14, 1949.

Maximum discharge known, 16,800 cfs (476 cu m/s) Mar 20, 1936, at mouth of river.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Thompson Lake (see p. 76), and several powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	405	1.290	500	780	430	1.340	1.890	1.370	2.110	271	207
2	143	349	1.040	615	775	435	2.170	1.550	1.230	2.730	350	211
3	143	397	939	610	1.490	451	3.340	1.330	1.090	2.890	703	209
4	163	464	826	580	1.890	464	3.060	1.170	961	2.310	1.070	205
5	198	452	701	540	2.020	499	2.860	1.060	818	3.030	1.540	246
6	214	401	763	510	1.910	527	2.720	970	706	3.230	1.510	283
7	283	357	1.160	480	1.640	536	2.550	911	675	2.920	1.130	397
8	499	322	1.320	465	1.440	638	2.350	854	726	2.320	849	581
9	589	429	1.280	455	1.290	850	2.160	821	616	1.840	723	505
10	560	701	1.170	440	1.140	1.020	2.010	1.020	535	1.490	598	415
11	492	803	1.030	425	1.020	1.070	1.940	1.170	473	1.310	485	391
12	442	720	910	410	923	1.220	1.760	1.380	442	1.180	411	368
13	416	606	840	400	858	1.680	1.580	1.510	431	1.020	372	373
14	356	530	805	395	819	1.980	1.450	1.430	484	878	340	373
15	306	493	740	385	795	1.970	1.340	1.220	521	883	328	365
16	273	446	655	375	781	1.890	1.290	1.150	627	845	332	351
17	239	385	610	365	744	2.310	1.320	1.180	1.290	729	340	333
18	209	342	580	359	693	3.620	1.430	1.160	1.420	586	320	348
19	191	315	550	356	676	3.980	1.510	1.400	1.240	525	306	438
20	180	512	530	438	663	3.570	1.480	1.470	1.000	458	295	516
21	170	724	515	569	645	2.660	1.360	2.060	866	435	275	536
22	167	688	500	711	635	2.140	1.200	2.500	725	506	259	524
23	172	601	490	1.050	632	1.810	1.120	2.740	896	478	244	542
24	195	503	480	1.360	621	1.670	1.060	2.420	1.190	403	227	514
25	216	460	470	1.540	592	1.650	1.010	1.940	1.080	345	217	503
26	231	829	465	1.560	568	1.760	945	1.590	938	300	207	465
27	221	1.640	460	1.340	486	1.850	913	1.410	858	271	198	326
28	209	1.950	455	1.110	448	1.730	1.420	1.310	823	257	213	244
29	257	1.880	450	965	------	1.590	1.770	1.310	861	255	220	203
30	355	1.560	450	846	------	1.420	2.050	1.340	1.150	256	220	179
31	413	------	450	800	------	1.330	------	1.380	------	274	213	------
TOTAL	8.650	20.264	22.924	20.954	26.974	48.750	52.508	44.646	26.042	37.064	14.766	11.151
MEAN	279	675	739	676	963	1.573	1.750	1.440	868	1.196	476	372
MAX	589	1.950	1.320	1.560	2.020	3.980	3.340	2.740	1.420	3.230	1.540	581
MIN	143	315	450	356	448	430	913	821	431	255	198	179
MEAN*	201	756	725	697	924	1,687	1,779	1,447	905	1,196	405	196
CFSM*	.61	2.30	2.21	2.12	2.82	5.14	5.42	4.41	2.76	3.65	1.23	.60
IN. *	.71	2.57	2.55	2.44	2.94	5.93	6.05	5.08	3.08	4.21	1.42	.67

CAL YR 1972 TOTAL 240.321 MEAN 657 MAX 3.270 MIN 105 MEAN* 661 CFSM* 2.02 IN* 27.43
WTR YR 1973 TOTAL 334.693 MEAN 917 MAX 3.980 MIN 143 MEAN* 910 CFSM* 2.77 IN* 37.65

*Adjusted for change in contents in Thompson Lake.

01059000 Androscoggin River near Auburn, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, on right bank 1.5 mi (2.4 km) downstream from Little Androscoggin River and 2.1 mi (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 sq mi (8,436 sq km).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft (33.278 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 6,032 cfs (170.8 cu m/s), 25.15 in/yr (639 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 45,800 cfs (1,300 cu m/s) July 1 (gage height, 13.67 ft or 4.167 m); minimum daily, 552 cfs (15.6 cu m/s) Oct. 22.
Period of record: Maximum discharge, 135,000 cfs (3,820 cu m/s) Mar. 20, 1936 (gage height, 27.57 ft or 8.403 m), from rating curve extended above 76,000 cfs (2,150 cu m/s) on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 cfs (9.63 cu m/s) Sept. 28, 1941.

REMARKS.--Records excellent. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulation by Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes, and Gulf Island Pond (see p. 76) with major regulation at Errol Dam 136 mi (219 km) upstream. Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	593	4,900	8,330	3,030	6,370	5,000	12,000	20,700	11,400	37,900	4,490	2,850
2	3,360	5,030	6,760	4,620	5,700	4,860	17,100	16,000	10,800	40,900	4,690	1,880
3	3,850	5,110	6,000	5,310	9,120	3,930	22,100	13,700	12,000	29,500	5,910	1,570
4	3,870	4,900	4,910	5,920	15,000	3,870	19,500	13,500	10,500	24,200	8,330	3,310
5	3,850	2,320	5,930	5,860	14,300	4,670	17,300	14,600	8,300	26,700	9,220	3,800
6	3,640	3,920	5,860	5,930	11,700	5,180	16,900	15,200	7,960	26,100	7,400	3,880
7	3,030	4,140	7,100	3,150	9,810	5,310	15,200	14,300	7,230	22,300	7,380	4,660
8	3,060	4,310	10,300	3,980	8,900	6,000	14,000	13,100	7,190	16,000	6,550	4,550
9	5,790	5,070	8,370	4,760	8,410	6,550	12,600	10,100	7,040	12,500	5,860	1,130
10	6,100	6,890	8,380	4,450	7,810	7,120	11,900	9,510	6,870	9,810	5,350	4,150
11	4,560	7,950	7,910	4,360	7,640	8,170	11,100	11,900	6,650	8,940	3,360	4,110
12	4,450	6,690	6,920	4,440	7,350	8,320	10,100	13,100	5,300	7,990	1,310	3,980
13	4,250	5,750	6,880	2,970	6,900	11,300	9,380	13,700	5,300	7,610	3,240	3,970
14	2,890	5,500	6,420	2,260	5,740	15,800	8,370	12,100	6,430	7,030	3,810	4,010
15	1,880	5,650	6,160	3,680	6,590	14,300	8,660	10,200	9,170	7,080	3,700	2,620
16	3,760	5,610	3,840	4,320	6,980	13,500	9,100	9,320	7,820	7,030	3,680	823
17	4,820	5,490	3,670	4,360	5,160	15,200	11,400	9,310	19,500	6,800	4,050	3,280
18	4,780	2,440	4,690	4,400	4,550	30,900	16,900	10,000	20,000	5,480	3,990	3,830
19	4,800	1,970	5,070	4,330	5,320	33,300	19,700	12,400	15,600	5,470	1,900	4,050
20	4,080	5,370	5,880	3,680	5,230	24,000	20,600	14,000	12,000	5,650	3,870	4,050
21	2,130	5,920	5,260	5,060	5,230	17,700	19,100	15,800	8,670	5,550	4,120	4,310
22	552	5,310	5,340	7,670	5,370	14,500	16,900	27,000	8,050	4,110	3,630	3,190
23	1,190	4,900	3,900	8,760	5,300	12,100	21,200	27,900	10,300	4,130	3,580	1,080
24	2,960	3,960	3,510	11,900	5,150	11,100	23,100	22,400	11,800	4,840	3,600	3,100
25	3,840	2,330	3,820	12,700	5,190	11,100	16,930	18,300	11,000	5,500	2,860	4,270
26	3,860	2,700	4,580	10,500	4,770	12,000	15,600	14,600	9,340	5,310	1,750	4,520
27	3,910	17,000	5,610	9,100	5,130	13,000	13,520	12,000	8,270	4,900	3,210	4,440
28	3,430	15,400	5,100	8,140	4,900	13,000	15,700	12,100	8,030	5,360	4,150	4,330
29	990	11,700	5,050	7,050	-------	11,500	27,100	11,600	9,130	1,070	4,600	2,550
30	4,460	9,500	4,620	6,710	-------	10,000	26,700	12,300	13,600	3,690	4,860	793
31	4,930	-------	4,020	6,930	-------	10,600	-------	12,100	-------	4,300	4,050	-------
TOTAL	109,665	177,730	180,870	180,730	199,620	365,480	479,710	444,060	292,030	363,750	138,600	99,106
MEAN	3,538	5,924	5,835	5,830	7,129	11,790	15,990	14,324	9,734	11,734	4,471	3,304
MAX	6,100	17,000	10,300	12,700	15,000	33,300	27,100	27,900	20,000	40,900	9,220	4,660
MIN	552	1,970	3,510	2,260	4,550	3,870	8,370	9,310	5,300	1,070	1,310	793
MEAN*	1,993	5,781	5,801	5,772	6,510	12,780	20,880	14,941	9,994	10,420	2,923	2,660
CFSM*	.61	1.77	1.78	1.77	2.00	3.92	6.41	4.59	3.07	3.20	.90	.82
IN. *	.71	1.98	2.05	2.04	2.08	4.52	7.15	5.29	3.42	3.69	1.03	.91

CAL YR 1972 TOTAL 2,204,943 MEAN 6,024 MAX 36,600 MIN 552 MEAN* 6,466 CFSM* 1.99 IN* 27.02
WTR YR 1973 TOTAL 3,031,391 MEAN 8,305 MAX 40,900 MIN 552 MEAN* 8,772 CFSM* 2.69 IN* 36.58

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes and Gulf Island Pond.

Reservoirs in Androscoggin River basin

01050500 RANGELEY LAKE on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 cu ft (37,926,000 cu m) in top 4.0 ft (1.22 m) of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.

01051000 MOOSELOOKMEGUNTIC LAKE at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 cu ft (237,000,000 cu m) between gage heights 8.3 and 20.5 ft (2.53 and 6.25 m). Gage-height record furnished by Union Water Power Co.

01051500 UPPER AND LOWER RICHARDSON LAKES on Rapid River, at Middle Dam, Maine, used for power, has usable capacity of 5,691,500,000 cu ft (161,180,000 cu m) between gage heights 3.0 and 20.5 ft (0.91 and 6.25m). Gage-height record furnished by Union Water Power Co.

01052000 AZISCOHOS LAKE on Magalloway River, in Lincoln Township, 3 mi (5 km) east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 cu ft (271,700,000 cu m) between elevations 1,490.0 and 1,535.0 ft (454.15 and 467.87 m). Elevation record furnished by Union Water Power Co.

01053000 UMBAGOG LAKE on Androscoggin River, at Errol Dam, 0.6 mi (1.0 km) northeast of Errol, N.H., used for power, has usable capacity of 3,080,160,000 cu ft (87,230,100 cu m) between gage heights 5.5 and 15.0 ft (1.68 and 4.57 m). Gage-height record furnished by Union Water Power Co.

01056000 GULF ISLAND POND on Androscoggin River, 3 mi (5 km) upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 cu ft (31,150,000 cu m) in top 10 ft (3 m) of pond below elevation 262.0 ft (79.86 m). Elevation record furnished by Central Maine Power Co.

01056500 LAKE AUBURN on outlet stream to Androscoggin River, at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 cu ft (16,430,000 cu m) between elevations 254.7 and 260.7 ft (77.63 and 79.46 m). Elevation record furnished by Auburn Water District.

01058000 THOMPSON LAKE on short outlet stream to Little Androscoggin River, at Oxford, Maine, used for process water, has usable capacity of 950,000,000 cu ft (26,900,000 cu m) between gage heights 95.0 and 100.0 ft (28.96 and 30.48 m). Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE	UMBAGOG LAKE
SEPT. 30, 1972	754	5,231	3,622	6,982	1,958
OCT. 31	361	4,344	854	6,688	2,262
NOV. 30	224	2,396	2,850	6,240	2,072
DEC. 31	224	2,164	2,814	6,240	2,015
JAN. 31, 1973	335	1,033	3,603	6,128	2,053
FEB. 28	335	1,000	3,788	5,456	1,156
MAR. 31	418	2,770	3,954	6,044	940
APR. 30	1,313	8,010	5,275	9,810	2,300
MAY 31	1,339	8,370	5,710	9,872	2,982
JUNE 30	1,366	8,442	5,768	9,934	3,002
JULY 31	1,145	7,760	5,125	9,192	1,939
AUG. 31	1,004	5,799	4,491	8,365	2,053
SEPT. 30	978	4,028	5,050	8,275	1,830

DATE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1972	2,264	452	1,647
OCT. 31	2,406	419	1,438
NOV. 30	2,139	405	1,647
DEC. 31	2,409	400	1,609
JAN. 31, 1973	2,409	500	1,664
FEB. 28	2,472	544	1,571
MAR. 31	2,472	496	1,875
APR. 30	2,482	496	1,951
MAY 31	2,487	560	1,970
JUNE 30	2,483	652	2,065
JULY 31	2,420	556	2,065
AUG. 31	1,981	520	1,875
SEPT. 30	2,351	463	1,619

Note.--Contents of Gulf Island Pond at 2400, Thompson Lake at 0800. Contents of all others at 0700 on first day of following month.

01059800 Collyer Brook near Gray, Maine

LOCATION.--Lat 43°55'03", long 70°19'02", Cumberland County, 50 ft (15 m) downstream from U.S. Highway 202, 2.4 mi (3.9 km) northeast of Gray, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--13.9 sq mi (36.0 sq km).

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (54.9 m), from topographic map.

AVERAGE DISCHARGE.--9 years, 25.6 cfs (0.725 cu m/s), 25.01 in/yr (635 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,080 cfs (30.6 cu m/s) Apr. 2 (gage height, 3.38 ft or 1.030 m); maximum gage height, 3.53 ft (1.076 m) Feb. 2 (backwater from ice); minimum discharge, 9.6 cfs (0.27 cu m/s) Oct. 5, 6, 7, 18-21, 28, 29 (gage height, 0.81 ft or 0.247 m).

Period of record: Maximum discharge, 1,220 cfs (34.6 cu m/s) Dec. 27, 1969 (gage height, 3.48 ft or 1.061 m); maximum gage height, 4.30 ft (1.311 m) Feb. 14, 1972 (backwater from ice); minimum daily discharge, 6.4 cfs (0.18 cu m/s) Jan. 29, 1966.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	18	50	59	25	19	36	43	46	113	25	18
2	11	17	48	48	95	18	488	41	41	51	64	21
3	10	30	45	32	150	18	484	39	37	39	66	19
4	10	27	30	30	105	19	117	37	36	39	34	18
5	9.6	20	36	26	66	21	106	36	36	213	28	17
6	9.8	17	62	24	52	20	100	35	33	78	24	20
7	26	17	95	21	40	20	80	34	35	47	23	27
8	30	16	70	18	33	33	61	32	34	40	23	20
9	18	36	47	17	29	62	56	37	31	36	22	19
10	15	46	33	16	27	58	70	49	26	33	21	18
11	14	31	28	15	26	45	86	50	25	33	21	18
12	13	22	25	14	25	77	60	48	31	32	21	17
13	14	14	23	13	24	123	51	42	30	29	20	17
14	17	17	21	13	23	90	47	36	32	32	19	17
15	15	16	20	13	22	69	47	34	27	31	20	19
16	14	17	19	13	22	82	42	47	52	30	21	18
17	12	18	18	13	22	196	44	48	82	27	19	17
18	11	17	18	13	22	276	42	55	41	27	19	20
19	9.6	16	17	14	23	88	42	58	32	27	19	30
20	9.6	76	16	32	22	58	40	44	29	26	19	29
21	9.9	69	16	63	21	43	37	205	28	28	18	19
22	10	37	16	44	21	38	39	110	36	27	19	19
23	10	36	15	120	21	35	39	62	29	24	20	20
24	10	23	15	69	21	39	36	52	27	23	18	25
25	10	23	15	62	20	43	33	49	26	22	18	20
26	10	201	14	66	20	58	32	49	28	21	18	19
27	10	168	14	35	29	56	40	44	36	22	18	18
28	10	56	14	39	19	42	172	45	42	21	21	18
29	20	92	14	28	------	37	71	56	38	20	19	17
30	26	49	14	27	------	35	48	48	37	20	17	17
31	20	------	16	28	------	35	------	48	------	19	18	------
TOTAL	441.5	1,280	884	1,014	1,016	1,843	2,646	1,663	1,049	1,230	732	606
MEAN	14.2	42.7	28.5	32.7	36.3	59.5	88.2	53.6	35.0	39.7	23.6	20.2
MAX	30	201	95	120	150	276	488	205	82	213	66	30
MIN	9.6	14	14	13	19	18	32	32	25	19	17	17
CFSM	1.02	3.07	2.05	2.35	2.61	4.28	6.35	3.86	2.52	2.86	1.70	1.45
IN.	1.18	3.43	2.37	2.71	2.72	4.93	7.08	4.45	2.81	3.29	1.96	1.62

CAL YR 1972 TOTAL 9,600.1 MEAN 26.2 MAX 201 MIN 6.6 CFSM 1.89 IN [illegible]

WTR YR 1973 TOTAL 14,404.5 MEAN 39.5 MAX 488 MIN 9.6 CFSM 2.84 IN 38.55

PEAK DISCHARGE (BASE, 175 CFS, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	0800	2.94	[illegible]	4-28	0700	2.61	[illegible]
2-02	*	*	[illegible]	5-21	1215	2.89	[illegible]
3-18	0330	2.82	[illegible]	7-05	1800	2.94	[illegible]
4-02	1615	3.38	1,080				

01060000 Royal River at Yarmouth, Maine

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, on right bank 150 ft (46 m) upstream from lower highway bridge, in Yarmouth.

DRAINAGE AREA.--142 sq mi (368 sq km).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (3.0 m), from topographic map.

AVERAGE DISCHARGE.--24 years, 269 cfs (7.618 cu m/s), 25.73 in/yr (654 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,160 cfs (146 cu m/s) Apr. 3 (gage height, 5.83 ft or 1.777 m); minimum daily, 21 cfs (0.59 cu m/s) Oct. 4-6.
Period of record: Maximum discharge, 7,960 cfs (225 cu m/s) Sept. 12, 1954 (gage height, 7.12 ft or 2.170 m); minimum, 4.4 cfs (0.12 cu m/s) Oct. 17, 18, 1962 (gage height, 0.71 ft or 0.216 m).

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Some diurnal fluctuation at low flow caused by mill above station. Records of chemical analyses for the water year 197: are published in Part 2 of this report.

)ISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	183	324	202	202	120	361	590	400	1,160	90	61
2	23	149	293	331	248	120	1,710	500	355	1,220	318	67
3	22	294	278	337	1,570	120	4,880	435	315	687	1,070	75
4	21	399	250	255	2,010	125	3,490	400	285	406	601	65
5	21	279	208	225	1,500	150	1,890	375	260	1,190	308	62
6	21	195	239	210	993	180	1,570	350	240	1,280	218	86
7	26	154	753	195	710	215	1,140	330	225	890	167	204
8	200	133	789	185	495	375	828	310	205	568	141	108
9	160	291	529	180	375	660	620	315	185	308	124	80
10	120	431	443	175	335	730	584	550	165	239	113	68
11	95	283	384	170	264	590	925	620	140	282	103	64
12	84	205	320	170	223	620	705	720	162	247	97	60
13	100	164	275	165	200	1,420	510	580	154	187	94	57
14	115	153	255	160	180	1,400	409	475	183	177	88	56
15	98	159	240	160	170	1,160	357	430	148	195	89	56
16	83	155	225	160	165	1,020	323	460	214	174	94	57
17	76	128	215	160	160	1,500	304	490	1,010	146	96	55
18	69	141	205	155	155	2,910	284	475	622	126	87	66
19	62	124	200	155	150	2,320	263	810	315	120	83	174
20	60	1,140	190	210	150	1,270	250	600	222	113	80	119
21	55	1,780	180	430	145	783	255	900	174	118	77	86
22	55	835	175	540	140	541	275	1,530	154	121	78	74
23	58	366	170	839	140	634	280	1,050	209	108	80	96
24	65	282	170	1,140	135	635	280	750	201	98	76	187
25	72	222	165	912	130	605	280	530	163	92	71	135
26	68	1,000	160	667	130	670	285	465	157	89	69	101
27	63	2,150	159	487	125	687	300	420	276	87	65	87
28	61	1,200	158	366	120	636	1,200	395	608	89	72	79
29	160	677	153	296	------	660	1,450	560	580	85	76	78
30	336	429	147	258	------	601	780	670	516	84	67	63
31	277	-----	143	237	------	373	------	635	------	82	63	------
TOTAL	2,727	14,181	8,395	10,125	11,320	23,060	26,780	17,300	8,867	10,768	4,853	2,618
MEAN	88.0	473	271	327	404	744	893	558	295	347	157	87.3
MAX	336	2,150	789	1,140	2,010	2,910	4,880	1,530	1,010	1,280	1,070	204
MIN	21	124	143	155	120	120	250	310	140	82	63	55
CFSM	.62	3.33	1.91	2.30	2.85	5.24	6.29	3.93	2.08	2.44	1.11	.61
IN.	.71	3.72	2.20	2.65	2.97	6.04	7.02	4.53	2.32	2.82	1.27	.69

CAL YR 1972 TOTAL 98,531 MEAN 269 MAX 3,420 MIN 21 CFSM 1.89 IN 25.81
WTR YR 1973 TOTAL 140,994 MEAN 386 MAX 4,880 MIN 21 CFSM 2.72 IN 36.93

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	1600	[illegible]	1,870	4-03	1300	5.83	5,160
11-27	0300	[illegible]	2,280	4-29	-	-	1,600
2-04	0800	[illegible]	2,060	5-22	-	-	1,700
3-18	1700	[illegible]	3,000				

Note.--No gage-height record Apr. 29 to June 11.

01064000 Presumpscot River at outlet of Sebago Lake, Maine

LOCATION.--Lat 43°49'03", long 70°27'01", Cumberland County, at dam of hydroelectric plant at Eel Weir Falls, 1.0 mi (1.6 km) downstream from lake outlet.

DRAINAGE AREA.--436 sq mi (1,129 sq km).

PERIOD OF RECORD.--January 1887 to current year.

GAGES.--Nonrecording gages in forebay and tailrace of hydroelectric plant at Eel Weir Falls and at dam on outlet of Sebago Lake.

AVERAGE DISCHARGE.--86 years, 658 cfs (18.6 cu m/s), 20.49 in/yr (520 mm/yr), unadjusted.

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through dam, totaling about 40 cfs (1.13 cu m/s), not included in figures of daily discharge. Flow regulated by Long Pond and Sebago Lake, surface area 45.6 sq mi (118 sq km), which have a combined usable capacity of 11,000,000,000 cu ft (312,000,000 cu m).

COPERATION.--Records furnished by S. D. Warren Co.

REVISIONS (WATER YEARS).--WSP 261: Drainage area. WSP 1301: 1920-50 (adjusted monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	818	819	806	819	806	818	819	1,430	783	0	825	831
2	831	806	628	806	806	818	312	1,560	805	0	825	831
3	818	831	806	806	819	831	175	1,660	825	0	825	819
4	831	794	806	819	819	831	516	1,470	924	466	825	819
5	818	806	806	806	831	818	781	1,470	985	2,700	825	819
6	806	806	819	819	831	819	781	1,470	996	3,290	825	822
7	806	819	806	819	818	805	791	1,390	996	3,280	825	819
8	805	819	806	819	818	805	791	1,190	996	2,960	825	819
9	806	819	819	819	831	818	781	1,070	996	2,550	825	819
10	831	831	819	806	831	818	781	902	996	2,000	825	819
11	831	831	819	819	831	818	781	902	996	1,640	825	819
12	818	831	806	806	831	818	781	923	882	1,510	831	831
13	806	831	806	819	806	818	781	1,080	825	1,390	825	831
14	818	806	831	819	806	818	781	1,330	825	1,390	825	831
15	831	831	818	806	818	831	791	1,350	825	1,390	825	819
16	831	819	831	806	831	818	793	1,500	831	1,390	819	819
17	805	819	737	805	818	831	773	1,510	831	1,043	825	819
18	818	819	743	819	818	797	781	1,720	934	825	825	831
19	818	806	819	806	818	818	789	1,700	1,110	825	825	831
20	819	806	818	806	818	818	789	1,710	1,270	831	825	831
21	844	831	806	806	818	818	781	2,010	1,390	831	825	819
22	806	794	819	819	818	818	781	2,183	1,393	831	825	831
23	806	794	819	806	818	818	781	2,350	1,390	831	825	831
24	831	794	806	806	818	818	781	2,300	1,390	825	825	831
25	831	806	806	806	818	818	781	2,190	1,390	825	825	831
26	818	806	806	806	818	818	781	2,190	1,390	825	825	831
27	833	819	819	806	818	818	781	2,060	1,393	825	825	831
28	806	819	806	806	818	818	1,290	1,780	1,390	825	825	831
29	806	806	805	806	------	831	1,653	1,563	1,763	825	825	831
30	819	819	806	806	------	819	1,540	910	981	825	831	831
31	819	------	806	819	------	831	------	771	------	825	825	------
TOTAL	25,382	24,437	24,854	25,142	22,969	25,302	23,936	47,510	32,072	38,570	25,501	24,777
MEAN	819	815	802	811	820	816	798	1,533	1,069	1,244	823	826
MAX	844	831	831	819	831	831	1,653	2,350	1,763	3,290	831	831
MIN	805	794	628	806	806	797	175	771	783	0	819	819
MEAN*	383	551	900	878	1,260	1,575	2,266	1,737	974	1,097	306	104
CFSM*	.70	1.26	2.06	2.01	2.89	3.61	5.20	3.98	2.23	2.52	.70	.24
IN*	.80	1.41	2.38	2.32	3.01	4.16	5.80	4.59	2.49	2.90	.81	.27

CAL YR 1972 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN 0 MEAN* 761 CFSM* 1.75 IN* 23.77
WTR YR 1973 TOTAL [illegible] MEAN [illegible] MAX 3,290 MIN 0 MEAN* [illegible] CFSM* 2.28 IN* 30.94

*Adjusted for change in contents in Long Pond and Sebago Lake, diversion by Portland Water District, and leakage through dam.

01064500 Saco River near Conway, N.H.

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, on left bank at Odell Falls, 1.8 mi (2.9 km) downstream from Swift River and Conway.

DRAINAGE AREA.--386 sq mi (1,000 sq km).

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft (127.464 m) above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--50 years (1903-9, 1929-73), 917 cfs (25.97 cu m/s), 32.26 in/yr (819 mm/yr).

EXTREMES.--Current year: Maximum discharge, 35,000 cfs (991 cu m/s) June 30 (gage height, 15.06 ft or 4.590 m); minimum, 174 cfs (4.93 cu m/s) Oct. 6 (gage height, 2.25 ft or 0.686 m).

Period of record: Maximum discharge, 43,900 cfs (1,240 cu m/s) Mar. 27, 1953 (gage height, 17.20 ft or 5.243 m), from rating curve extended above 23,000 cfs (651 cu m/s) on basis of slope-area measurement of peak flow; minimum, 40 cfs (1.13 cu m/s) Mar. 16, 1932 (gage height, 1.61 ft or 0.491 m).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1908-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	421	1,100	724	800	560	2,190	2,710	1,740	14,000	388	229
2	251	406	1,070	2,130	1,280	550	3,420	2,490	1,500	7,580	728	237
3	205	690	906	1,130	10,000	542	2,940	2,720	1,350	4,220	2,230	223
4	194	891	819	834	5,300	557	2,450	3,060	1,240	3,310	1,360	222
5	185	645	785	650	4,000	678	2,340	2,220	1,180	5,760	924	214
6	177	578	885	540	3,100	678	2,090	1,810	1,150	3,750	665	348
7	228	532	3,820	485	2,300	559	1,950	1,660	1,100	2,650	562	813
8	1,590	512	1,830	465	1,900	919	1,890	1,550	1,000	2,090	508	391
9	697	1,430	1,630	455	1,680	2,060	1,760	1,730	914	1,720	462	293
10	458	1,520	1,500	445	1,500	1,440	1,730	3,740	862	1,470	433	267
11	363	1,110	1,230	435	1,370	1,120	1,650	3,000	748	1,450	449	244
12	334	894	987	430	1,230	1,700	1,370	3,380	797	1,240	444	239
13	337	788	890	430	1,120	3,560	1,250	2,730	926	1,090	398	221
14	325	748	800	435	1,050	2,510	1,190	2,190	1,180	1,400	370	216
15	307	731	740	450	970	1,900	1,250	1,840	862	1,490	384	224
16	310	633	695	465	910	1,820	1,560	2,100	1,100	1,150	405	230
17	291	544	650	510	860	4,150	2,950	2,160	4,000	944	372	226
18	290	560	620	580	800	10,500	4,460	1,880	1,860	859	349	245
19	277	512	590	700	770	4,510	5,110	3,000	1,340	759	380	623
20	262	561	565	980	720	3,040	5,010	2,040	1,110	698	319	395
21	249	912	540	1,630	690	2,340	3,900	5,040	979	676	287	307
22	242	652	520	1,910	660	1,960	5,750	6,680	906	648	277	283
23	246	599	500	4,910	630	1,710	7,450	3,810	982	585	281	685
24	276	601	480	4,450	619	1,630	5,200	2,770	844	506	263	511
25	289	544	465	2,660	575	1,650	3,710	2,260	897	501	250	400
26	276	1,480	455	2,110	550	2,090	3,100	1,960	792	464	245	365
27	260	3,600	440	1,790	536	2,390	2,810	1,730	732	495	235	312
28	249	1,770	430	1,580	539	1,990	6,170	1,680	1,780	534	261	282
29	300	1,470	420	1,280	-------	1,820	5,960	2,680	2,480	480	358	259
30	659	1,190	410	956	-------	1,740	3,570	1,920	18,900	431	260	261
31	548	-------	397	840	-------	1,850	-------	1,760	-------	388	248	-------
TOTAL	10,968	27,624	27,169	37,389	46,459	64,523	96,260	80,220	55,091	63,338	15,095	9,725
MEAN	354	921	876	1,206	1,659	2,081	3,209	2,588	1,836	2,043	487	324
MAX	1,590	3,600	3,820	4,910	10,000	10,500	7,450	6,680	18,900	14,000	2,230	813
MIN	177	406	397	430	536	542	1,190	1,550	732	388	235	214
CFSM	.92	2.39	2.27	3.12	4.30	5.39	8.31	6.70	4.76	5.29	1.26	.84
IN.	1.06	2.66	2.62	3.60	4.48	6.22	9.28	7.73	5.31	6.11	1.45	.94

CAL YR 1972 TOTAL 345,630 MEAN 944 MAX 7,910 MIN 160 CFSM 2.45 IN 33.29
WTR YR 1973 TOTAL 533,861 MEAN 1,463 MAX 18,900 MIN 177 CFSM 3.79 IN 51.45

PEAK DISCHARGE (BASE, 8,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-03	-	11.10	19,200	5-21	1800	8.16	9,230
3-18	0600	9.83	14,000	6-30	2000	15.06	35,000

01065000 Ossipee River at Effingham Falls, N.H.

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, on left bank 0.3 mi (0.5 km) upstream from bridge on State Highway 153 at Effingham Falls, 0.3 mi (0.5 km) downstream from outlet of Ossipee Lake, and 4 mi (6 km) northwest of Effingham.

DRAINAGE AREA.--330 sq mi (855 sq km).

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

AVERAGE DISCHARGE.--31 years, 686 cfs (19.43 cu m/s), 28.23 in/yr (717 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,180 cfs (147 cu m/s) July 6 (gage height, 9.26 ft or 2.822 m); minimum, 86 cfs (2.44 cu m/s) Aug. 28; minimum daily, 165 cfs (4.67 cu m/s) Aug. 28.
Period of record: Maximum discharge, 11,700 cfs (331 cu m/s) Mar. 28, 1953 (gage height, 11.64 ft or 3.548 m); minimum, about 5 cfs (0.14 cu m/s) during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 cfs (0.31 cu m/s) Oct. 10, 1944.

REMARKS.--Records excellent. Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity 1,430,000,000 cu ft or 40,500,000 cu m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AU	SEP
1	229	242	1,570	474	1,150	548	1,530	1,700	1,240	3,210	21	221
2	229	244	1,450	478	1,120	530	1,690	1,470	1,190	4,100	40	219
3	229	303	1,330	485	1,160	513	2,090	1,320	1,110	3,860	95	219
4	227	352	1,130	499	1,400	502	2,350	1,080	773	3,380	1,11	219
5	227	354	927	593	2,140	495	2,430	949	530	3,950	1,11	219
6	225	354	904	665	2,410	488	2,390	945	697	5,150	1,08	257
7	227	354	967	641	2,140	488	2,290	927	909	4,670	98	357
8	229	354	1,030	633	1,900	502	2,170	900	918	3,950	83	413
9	229	360	1,050	625	1,700	551	2,060	891	909	3,320	79	410
10	229	365	1,070	621	1,510	637	1,960	1,060	891	2,670	53	404
11	229	377	1,080	617	1,320	697	1,900	1,290	753	1,950	31	401
12	229	395	1,060	617	1,200	741	1,770	1,520	555	1,140	23	398
13	229	474	1,040	617	1,110	855	1,530	1,670	581	814	17	392
14	229	527	1,010	609	1,030	1,080	1,370	1,890	609	985	19	389
15	229	537	864	605	985	1,230	1,330	1,870	773	1,050	19	386
16	227	530	773	597	940	1,280	1,310	1,730	873	913	19	386
17	229	516	757	589	891	1,430	1,380	1,630	990	797	21	380
18	229	506	733	581	841	2,100	1,520	1,230	1,110	781	28	380
19	231	499	717	467	797	2,870	1,650	1,110	1,080	749	27	416
20	231	506	705	395	773	2,920	1,680	1,140	949	549	20	471
21	231	669	697	407	753	2,660	1,290	1,550	866	401	21	467
22	234	773	555	425	733	2,350	1,330	2,300	823	401	21	460
23	234	741	464	499	709	2,070	1,920	2,750	810	401	21	457
24	234	741	464	936	689	1,950	2,130	2,670	801	398	21	513
25	234	729	467	1,250	661	1,700	1,910	2,450	660	398	20	544
26	231	733	467	1,520	633	1,660	1,710	2,170	217	398	20	534
27	231	1,060	467	1,570	605	1,700	1,560	1,930	225	398	27	523
28	231	1,510	467	1,460	573	1,750	1,570	1,730	242	398	16	513
29	234	1,760	467	1,400	------	1,730	1,700	1,390	637	395	27	499
30	238	1,660	467	1,290	------	1,640	1,700	1,220	1,230	331	26	488
31	240	------	467	1,210	------	1,500	------	1,240	------	219	24	------
TOTAL	7,144	18,485	25,616	23,375	31,873	41,167	53,000	47,722	23,751	52,166	12,9	11,935
MEAN	230	616	826	754	1,138	1,328	1,767	1,539	792	1,683	41	398
MAX	240	1,760	1,570	1,570	2,410	2,920	2,430	2,750	1,240	5,150	1,11	544
MIN	225	242	464	395	573	488	1,290	891	217	219	16	219

CAL YR 1972 TOTAL 259,339 MEAN 709 MAX 3,680 MIN 160 CFSM 2.15 IN 29.23
WTR YR 1973 TOTAL 348,965 MEAN 956 MAX 5,150 MIN 165 CFSM 2.90 IN 39.32

01065500 Ossipee River at Cornish, Maine

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, on left bank 100 ft (30 m) downstream from highway bridge in Cornish, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--453 sq mi (1,173 sq km).

PERIOD OF RECORD.--July 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft (84.16 m) above mean sea level. Prior to Aug. 21, 1929, nonrecording gage and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft (0.3 m) higher.

AVERAGE DISCHARGE.--57 years, 868 cfs (24.58 cu m/s), 26.02 in/yr (661 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,120 cfs (173 cu m/s) July 6 (gage height, 8.44 ft or 2.573 m); minimum daily, 198 cfs (5.61 cu m/s) Aug. 29.

Period of record: Maximum discharge, 17,200 cfs (487 cu m/s) Mar. 21, 1936 (gage height, 16.32 ft or 4.974 m, present datum), from rating curve extended above 7,500 cfs (212 cu m/s); minimum daily, 65 cfs (1.84 cu m/s) Sept. 8, 1929.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by mill at Kezar Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds (combined capacity, 1,600,000,000 cu ft or 45,300,000 cu m).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1927-29 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	311	2,010	655	1,900	720	2,180	2,370	1,730	2,860	291	295
2	253	317	1,870	670	1,990	694	3,310	2,110	1,660	4,490	472	292
3	244	394	1,710	700	2,410	673	3,760	1,810	1,480	4,450	1,490	279
4	242	470	1,550	730	2,720	676	3,490	1,630	1,280	4,110	1,460	279
5	246	449	1,180	800	3,090	695	3,590	1,300	835	4,780	1,380	270
6	246	441	1,160	920	4,090	702	3,550	1,290	877	5,880	1,270	276
7	299	434	1,300	910	3,430	692	3,400	1,260	1,170	5,700	1,170	359
8	477	440	1,450	890	2,600	766	3,190	1,210	1,210	4,800	974	469
9	365	573	1,480	880	2,240	918	2,980	1,210	1,170	3,940	923	467
10	294	576	1,450	875	2,090	997	2,830	1,570	1,100	3,270	803	458
11	282	515	1,430	870	1,890	1,020	2,730	1,770	1,030	2,510	442	453
12	279	501	1,380	865	1,840	1,160	2,540	2,040	755	1,790	411	447
13	281	523	1,330	860	1,530	1,540	2,280	2,210	766	909	306	440
14	277	627	1,290	850	1,410	1,730	1,970	2,270	793	1,100	270	436
15	276	662	1,210	845	1,270	1,800	1,920	2,400	827	1,220	282	438
16	260	645	1,000	840	1,200	1,880	1,920	2,300	1,090	1,130	299	435
17	262	620	1,000	830	1,180	2,440	1,970	2,160	1,350	931	283	427
18	268	602	980	820	1,150	3,830	2,100	1,870	1,430	897	275	457
19	267	590	965	720	1,100	3,870	2,210	1,600	1,340	874	272	492
20	267	749	950	570	1,050	3,840	2,150	1,580	1,230	801	271	529
21	267	946	910	590	955	3,500	1,760	2,310	1,030	535	273	524
22	268	988	780	640	935	3,140	1,790	3,300	987	522	270	517
23	272	922	670	800	915	2,820	2,070	3,510	970	504	268	530
24	276	885	665	1,400	870	2,580	2,660	3,360	947	495	264	539
25	273	861	665	2,000	840	2,440	2,420	3,110	849	487	259	607
26	272	1,260	657	2,300	810	2,530	2,170	2,820	390	483	258	591
27	270	1,830	654	2,520	790	2,680	2,050	2,520	369	503	252	577
28	270	1,940	650	2,270	755	2,550	2,590	2,310	418	498	274	562
29	313	2,330	645	2,080	-------	2,450	2,630	2,140	559	480	198	546
30	363	2,150	640	2,030	-------	2,340	2,530	1,690	1,330	471	329	530
31	331	-------	640	1,950	-------	2,232	-------	1,750	-------	322	354	-------
TOTAL	8,817	24,551	34,271	34,680	47,090	59,903	76,760	64,780	30,972	61,742	16,343	13,521
MEAN	284	818	1,106	1,119	1,682	1,932	2,559	2,090	1,032	1,992	527	451
MAX	477	2,330	2,010	2,520	4,090	3,870	3,760	3,510	1,730	5,880	1,490	607
MIN	242	311	640	570	755	673	1,760	1,210	369	322	198	270

CAL YR 1972 TOTAL 342,295 MEAN 935 MAX 4,340 MIN 237 CFSM 2.06 IN 28.11
WTR YR 1973 TOTAL 473,370 MEAN 1,297 MAX 5,880 MIN 198 CFSM 2.86 IN 38.87

01066000 Saco River at Cornish, Maine

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, on left bank 300 ft (90 m) upstream from highway bridge at Cornish, and 0.4 mi (0.6 km) downstream from Ossipee River.

DRAINAGE AREA.--1,298 sq mi (3,362 sq km).

PERIOD OF RECORD.--June 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft (80.309 m) above mean sea level. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

AVERAGE DISCHARGE.--57 years, 2,680 cfs (75.90 cu m/s), 28.04 in/yr (712 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,300 cfs (490 cu m/s) July 5 (gage height, 11.26 ft or 3.432 m); minimum daily, 640 cfs (18.1 cu m/s) Oct. 1.

Period of record: Maximum discharge, 45,000 cfs (1,270 cu m/s) Mar. 21, 22, 1936 (gage height, 21.90 ft or 6.675 m, from floodmarks); minimum daily, 245 cfs (6.94 cu m/s) Oct. 18, 1957.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds (combined capacity, 3,400,000,000 cu ft or 96,000,000 cu m). Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1917-18 (M), 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	1,100	4,920	2,420	4,800	2,350	6,710	9,640	6,040	6,200	1,380	930
2	680	1,110	4,610	2,700	4,600	2,290	8,550	9,410	5,730	10,900	1,580	923
3	720	1,260	4,380	2,890	5,200	2,230	9,540	8,710	5,310	15,000	2,930	935
4	710	1,380	4,110	2,950	5,800	2,210	9,400	8,010	4,850	16,100	3,670	918
5	680	1,480	3,600	2,980	6,100	2,230	9,760	7,250	4,160	16,800	4,050	881
6	670	1,520	3,400	2,900	6,500	2,250	9,830	6,900	3,950	17,000	4,020	867
7	660	1,520	3,940	2,700	6,800	2,250	9,620	6,440	4,070	16,200	3,890	919
8	980	1,520	4,100	2,500	6,800	2,340	9,250	5,890	3,940	14,400	3,570	982
9	1,250	1,840	3,680	2,400	6,600	2,650	8,750	5,540	3,760	12,500	3,270	1,210
10	1,400	2,030	3,510	2,400	6,300	2,950	8,250	5,790	3,550	10,800	2,880	1,190
11	1,150	2,220	3,670	2,300	5,900	3,160	7,870	5,840	3,210	9,020	2,390	1,140
12	1,050	2,280	4,130	2,200	5,850	3,630	7,310	6,340	2,900	7,330	2,190	1,100
13	1,000	2,310	4,000	2,050	5,600	4,270	6,730	6,770	2,810	5,620	1,930	1,060
14	980	2,370	3,800	2,200	5,300	4,730	6,130	6,880	2,760	5,270	1,740	1,050
15	960	2,420	3,930	2,250	4,900	5,140	5,840	6,970	2,770	4,970	1,650	897
16	950	2,290	3,510	2,300	4,600	5,380	5,650	6,790	3,080	4,570	1,500	987
17	940	2,180	3,700	2,200	4,250	6,450	5,590	6,420	3,660	4,180	1,480	1,010
18	926	2,070	3,580	2,130	4,000	9,080	5,770	5,960	4,040	3,910	1,410	991
19	901	1,940	3,350	2,250	3,700	9,550	6,070	5,660	4,220	3,590	1,340	1,040
20	885	2,290	3,080	2,300	3,550	10,900	6,340	5,550	4,160	3,330	1,280	1,180
21	867	2,550	2,950	2,300	3,300	11,500	6,390	6,810	3,890	2,910	1,220	1,220
22	845	2,580	2,870	2,550	2,950	11,100	6,930	8,200	3,670	2,710	1,160	1,190
23	836	2,300	2,800	2,900	2,900	10,203	7,480	8,820	3,500	2,330	1,130	1,210
24	843	2,230	2,750	3,600	2,850	9,280	8,390	9,430	3,340	2,340	1,040	1,260
25	842	2,310	2,680	4,303	2,750	8,480	8,710	9,630	3,130	2,170	918	1,430
26	837	3,150	2,630	5,000	2,680	8,100	8,800	9,310	2,610	1,970	934	1,410
27	843	4,160	2,560	5,450	2,550	8,040	8,630	8,610	2,520	1,930	926	1,370
28	865	4,540	2,510	5,450	2,450	7,630	9,420	7,840	2,530	1,860	934	1,320
29	865	5,120	2,480	5,300	------	7,390	9,370	7,270	2,660	1,780	867	1,270
30	994	5,030	2,400	5,100	------	7,120	9,390	6,410	3,750	1,700	960	1,230
31	1,020	------	2,200	5,000	------	6,860	------	6,300	------	1,480	997	------
TOTAL	27,789	71,100	105,830	95,970	129,580	181,740	236,470	225,390	110,570	210,870	59,336	33,120
MEAN	896	2,370	3,414	3,096	4,628	5,863	7,882	7,271	3,686	6,802	1,914	1,104
MAX	1,400	5,120	4,920	5,450	6,800	11,500	9,830	9,640	6,040	17,000	4,050	1,430
MIN	640	1,100	2,200	2,050	2,450	2,210	5,590	5,540	2,520	1,480	867	867

CAL YR 1972 TOTAL 1,068,392 MEAN 2,919 MAX 14,600 MIN 595 CFSM 2.25 IN 30.62
WTR YR 1973 TOTAL 1,487,765 MEAN 4,076 MAX 17,000 MIN 640 CFSM 3.14 IN 42.64

01066500 Little Ossipee River near South Limington, Maine

LOCATION.--Lat 43°41'22", long 70°40'15", York County, on right bank 25 ft (8 m) upstream from highway bridge, 2 mi (3 km) southeast of South Limington, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--161 sq mi (417 sq km).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (79.2 m), from topographic map.

AVERAGE DISCHARGE.--33 years, 290 cfs (8.213 cu m/s), 24.46 in/yr (621 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,820 cfs (79.9 cu m/s) Apr. 3 (gage height, 5.35 ft or 1.631 m); minimum daily, 28 cfs (0.79 cu m/s) July 31.

Period of record: Maximum discharge, 5,300 cfs (150 cu m/s) May 10, 1954 (gage height, 6.78 ft or 2.067 m); minimum daily, 1.7 cfs (0.048 cu m/s) Oct. 7, 1965.

Maximum discharge known, 8,530 cfs (242 cu m/s) Mar. 19, 1936, at "Ledgemere" dam 3.6 mi (5.8 km) upstream.

REMARKS.--Records good. Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds (combined capacity, 581,000,000 cu ft or 16,450,000 cu m). Records of chemical analyses for the water year 1973 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	140	686	325	580	285	709	1,040	588	502	31	70
2	128	140	616	374	414	281	1,090	713	618	536	78	66
3	128	150	529	472	508	259	2,540	522	571	393	329	64
4	131	160	424	436	620	237	2,350	422	502	380	381	62
5	132	170	349	385	690	274	1,900	347	470	677	328	59
6	132	175	436	365	740	310	1,820	348	378	857	286	69
7	147	175	630	340	769	306	1,660	351	412	680	224	105
8	170	170	746	320	728	338	1,380	353	475	531	151	100
9	211	180	703	310	687	483	1,190	358	426	354	153	89
10	230	190	656	300	664	552	1,030	450	371	221	149	92
11	235	205	644	285	591	561	1,010	640	338	222	143	103
12	230	220	628	270	531	567	972	701	326	172	134	104
13	220	230	604	260	473	628	874	662	314	39	92	99
14	210	235	574	255	448	541	792	597	303	89	39	214
15	200	234	477	255	437	575	761	530	236	125	54	300
16	185	229	394	244	433	743	732	538	199	140	73	292
17	175	226	667	240	427	937	514	579	310	139	80	283
18	160	222	956	235	405	1,680	53	579	396	133	79	283
19	150	217	827	236	376	1,860	45	636	401	131	74	277
20	135	238	675	245	376	1,530	42	633	391	166	75	271
21	130	260	703	257	365	1,350	44	946	356	179	71	266
22	115	282	584	305	362	955	42	1,510	234	163	68	262
23	120	322	380	370	360	823	138	1,450	173	153	68	260
24	115	346	342	460	350	782	266	1,150	191	146	65	258
25	135	368	333	520	326	762	286	928	197	140	62	252
26	130	409	328	570	320	767	286	830	194	132	59	245
27	120	955	324	620	300	872	458	747	193	129	58	240
28	120	1,030	319	590	301	939	770	731	207	126	65	234
29	120	878	310	562	------	851	1,050	519	252	126	76	227
30	130	743	310	589	------	765	1,170	346	297	101	69	219
31	145	------	310	552	------	724	------	475	------	28	66	------
TOTAL	4,818	9,499	16,464	11,547	13,581	22,537	25,974	20,631	10,319	7,910	3,680	5,465
MEAN	155	317	531	372	485	727	866	666	344	255	119	182
MAX	235	1,030	956	620	769	1,860	2,540	1,510	618	857	381	300
MIN	115	140	310	235	300	237	42	346	173	28	31	59

CAL YR 1972 TOTAL 122,027 MEAN 333 MAX 1,470 MIN 20 CFSM 2.07 IN 28.20
WTR YR 1973 TOTAL 152,425 MEAN 418 MAX 2,540 MIN 28 CFSM 2.60 IN 35.22

01069500 Mousam River near West Kennebunk, Maine

LOCATION.--Lat 43°25'04", long 70°39'32", York County, on right bank 100 ft (30 m) upstream from highway bridge, 1.4 mi (2.3 km) downstream from Middle Branch, and 4.0 mi (6.4 km) west of West Kennebunk.

DRAINAGE AREA.--105 sq mi (272 sq km).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (52 m) from topographic map.

AVERAGE DISCHARGE.--34 years, 179 cfs (5.069 cu m/s), 23.15 in/yr (588 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,950 cfs (55.2 cu m/s) Apr. 3 (gage height, 4.18 ft or 1.274 m); minimum daily, 10 cfs (0.28 cu m/s) Sept. 17.

Period of record: Maximum discharge, 2,830 cfs (80.1 cu m/s) Sept. 12, 1954 (gage height, 5.69 ft or 1.734 m); minimum daily, 0.4 cfs (0.011 cu m/s) Nov. 10, 15, 16, 1964.

REMARKS.--Records excellent. Flow regulated by Square Pond and Mousam and Estes Lakes (combined capacity, about 700,000,000 cu ft or 20,000,000 cu m) and powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	160	375	246	245	179	365	472	348	136	76	14
2	56	155	326	360	260	177	1,300	415	330	239	22	15
3	51	164	296	314	664	177	1,690	375	302	264	144	15
4	61	167	294	290	685	179	1,160	355	286	226	193	15
5	71	158	289	270	550	185	996	334	294	274	192	133
6	74	155	301	236	461	190	915	325	288	293	190	185
7	152	154	497	194	401	191	764	315	286	240	76	68
8	246	152	454	218	361	261	640	300	284	214	19	13
9	180	150	378	221	339	419	550	308	244	232	19	13
10	136	250	432	211	299	416	537	510	253	206	84	13
11	113	190	383	203	269	364	603	482	279	195	21	124
12	109	165	301	193	247	398	526	492	234	192	20	69
13	105	155	338	187	246	607	470	461	208	93	25	12
14	92	155	297	185	239	608	424	399	193	20	68	12
15	97	152	274	135	250	533	390	342	190	20	191	11
16	77	165	259	184	243	509	364	391	180	20	133	11
17	87	185	245	183	229	661	336	416	169	21	19	10
18	75	182	234	185	222	1,020	310	412	156	20	19	11
19	72	170	259	195	222	765	309	502	143	140	20	121
20	72	293	253	258	213	626	294	436	138	123	20	155
21	67	600	237	276	209	534	286	700	101	20	21	111
22	69	405	238	277	204	468	285	814	17	20	145	12
23	71	287	233	432	204	412	279	632	17	20	190	11
24	71	296	227	516	200	399	257	523	18	20	129	95
25	73	247	222	433	195	406	248	454	117	30	17	53
26	140	487	217	376	190	462	248	374	185	133	17	54
27	129	992	217	335	184	541	327	374	185	135	134	152
28	15	605	214	306	180	471	670	360	128	18	94	149
29	54	482	208	302	-------	429	704	437	18	20	15	123
30	179	405	205	256	-------	398	559	405	19	17	15	117
31	168	-------	199	284	-------	376	-------	362	-------	17	14	-------
TOTAL	2,999	8,278	8,902	8,281	8,211	13,361	16,806	13,477	5,610	3,618	2,342	1,897
MEAN	96.7	276	287	267	293	431	560	435	187	117	75.5	63.2
MAX	246	992	497	516	685	1,020	1,690	814	348	293	193	185
MIN	15	150	199	183	180	177	248	300	17	17	14	10
MEAN*	93.7	297	288	246	294	480	583	413	174	107	66.5	42.2
CFSM*	.89	2.83	2.74	2.34	2.80	4.57	5.55	3.93	1.66	1.02	.63	.40
IN. *	1.03	3.16	3.16	2.70	2.92	5.27	6.19	4.53	1.85	1.18	.73	.45

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CAL YR 1972   TOTAL 76,972.0   MEAN 210   MAX   997   MIN  1.4   MEAN*   213   CFSM*   2.03   IN*   27.65
WTR YR 1973   TOTAL 93,782.0   MEAN 257   MAX 1,690   MIN 10     MEAN*   257   CFSM*   2.45   IN*   33.17
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*Adjusted for change in contents in Square Pond and Mousam Lake. Records furnished by Town of Sanford.

01072100 Salmon Falls River at Milton, N.H.

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 sq mi (280 sq km).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (123 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 215 cfs (6.089 cu m/s), 27.03 in/yr (687 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,690 cfs (47.9 cu m/s) Apr. 3 (gage height, 5.46 ft or 1.664 m); minimum daily, 41 cfs (1.16 cu m/s) Aug. 25 to Sept. 3.
Period of record: Maximum discharge, 1,730 cfs (49.0 cu m/s) Feb. 12, 1970 (gage height, 5.49 ft or 1.673 m); minimum daily, 19 cfs (0.54 cu m/s) Aug. 30, Sept. 13, 1970.

REMARKS.--Records good. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 cu ft (36,250,000 cu m). See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	67	575	206	273	223	389	576	389	726	50	41
2	215	74	502	240	268	217	612	444	383	483	50	41
3	281	106	453	274	339	205	1.540	342	349	241	79	41
4	289	151	412	290	487	205	1.510	268	274	71	118	59
5	317	182	382	297	584	214	1.180	222	191	157	134	95
6	350	195	350	288	602	235	996	225	215	254	129	95
7	359	201	380	265	555	250	897	174	228	274	116	95
8	355	204	418	235	500	276	793	96	230	252	108	95
9	352	226	438	180	449	365	687	106	227	223	107	95
10	340	232	458	201	404	448	607	188	215	195	107	94
11	332	247	460	188	359	460	483	389	200	168	107	95
12	346	249	437	181	321	457	417	525	147	149	106	94
13	341	245	410	169	298	512	421	525	102	117	100	95
14	320	243	382	165	274	593	414	474	129	98	80	95
15	317	249	357	161	264	600	412	430	135	97	60	95
16	297	228	331	154	248	568	294	411	136	85	60	95
17	291	214	308	153	243	587	132	412	152	75	58	94
18	271	196	289	144	241	834	124	408	149	74	57	95
19	249	171	280	140	253	997	99	413	147	64	57	95
20	227	187	270	163	257	881	105	417	140	57	57	95
21	196	282	252	204	263	765	112	708	132	57	57	97
22	184	328	245	242	271	663	124	982	131	57	58	98
23	180	330	245	302	271	568	153	874	134	56	60	98
24	177	302	235	378	269	501	157	675	129	53	51	101
25	176	268	230	430	268	459	146	401	116	52	41	107
26	105	296	220	436	251	445	150	289	109	51	41	107
27	53	590	219	416	245	500	186	310	112	51	41	108
28	57	727	219	380	231	520	385	318	121	51	41	111
29	60	697	205	355	------	495	780	335	131	50	41	111
30	63	625	198	323	------	456	674	381	533	50	41	111
31	66	------	195	297	------	420	------	390	------	50	41	------
TOTAL	7.338	8.312	10.355	7,857	9,288	14.919	14.979	12.708	5.786	4.438	2,253	2.748
MEAN	237	277	334	253	332	481	499	410	193	143	72.7	91.6
MAX	359	727	575	436	602	997	1.540	982	533	726	134	111
MIN	53	67	195	140	231	205	99	96	102	50	41	41
*	632.8	812.2	770.4	787.4	721.0	955.6	1,205.5	1,216.7	1,205.9	1,152.0	1,140.1	929.4

CAL YR 1972 TOTAL 82.783 MEAN 226 MAX 848 MIN 50
WTR YR 1973 TOTAL 100.981 MEAN 277 MAX 1.540 MIN 41

*Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes, and Horn, Wilson, Milton, Northeast, and Town House Ponds. Records furnished by New Hampshire Water Resources Board.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		ST. JOHN RIVER BASIN					
01014700	Factory Brook near Madawaska, Me.	Lat 47°21'09", long 68°17'55", 12 ft upstream from culvert in U.S. Highway 1, half a mile upstream from mouth and 1.1 mi east of Madawaska.	5.83	1964-73	4-29-73	9.63	253
01015700	Houlton Brook near Oxbow, Me.	Lat 46°26'18", long 68°24'21", at culvert in road west from State Highway 11 to Oxbow, 1.9 mi upstream from mouth and 4.3 mi northeast of Oxbow.	5.08	1964-73	4-29-73	7.89	236
01017300	Nichols Brook near Caribou, Me.	Lat 46°51'31", long 67°56'18", at culvert in road north from Grimes Mill to State Highway 223, 300 ft upstream from mouth and 3.5 mi east of Caribou.	3.94	1964-73	4-29-73	7.71	148
		WIGGINS BROOK BASIN					
01021300	Wiggins Brook near West Lubec, Me.	Lat 44°45'26", long 67°05'23", 10 ft upstream from culvert in State Highway 191, 4.4 mi southwest of West Lubec.	5.04	1965-73	2-03-73 4-29-73	a7.91 7.17	--- 280
		MACHIAS RIVER BASIN					
01021600	Middle River near Machias, Me.	Lat 44°44'14", long 67°29'35", 40 ft upstream from highway bridge in connecting road between State Highway 192 and U.S. Highway 1-A, 2.2 mi northwest of Machias and 3.4 mi upstream from mouth.	8.32	1965-73	4-29-73	4.68	230
		FORBES POND BROOK BASIN					
01022700	Forbes Pond Brook near Prospect Harbor, Me.	Lat 44°24'33", long 68°01'37", on abutment of highway bridge in State Highway 186, 100 ft upstream from mouth and in the village of Prospect Harbor.	8.78	1965-73	4-29-73	4.55	347
		FROST POND BROOK BASIN					
01026800	Frost Pond Brook near Sedgwick, Me.	Lat 44°22'12", long 68°39'29", at culvert in State Highway 15 between Grays Corner and Black Corner, 700 ft upstream from mouth and 5 mi northeast of Sedgwick.	5.68	1965-73	4-29-73	6.35	210
		PENOBSCOT RIVER BASIN					
01030300	Trout Brook near Danforth, Me.	Lat 45°41'43", long 67°54'07", at culvert in State Highway between Bancroft and Danforth, 1.3 mi upstream from mouth and 3.0 mi northeast of Danforth.	4.39	1964-73	4-29-73	4.51	229

a Affected by backwater from ice.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		PENOBSCOT RIVER BASIN--Continued					
01030400	Gulliver Brook near Monarda, Me.	Lat 45°44'23", long 68°18'30", at culvert in U.S. Highway 2, 2,700 ft upstream from mouth and 4.1 mi south of Monarda.	11.0	1964-73	7-05-73	5.25	562
01034900	Coffin Brook near Lee, Me.	Lat 45°20'18', long 68°21'42", 14 ft upstream from culvert in Lee Back Road, 4 mi southwest of Lee.	2.21	1964-73	11-26-72	6.04	95
01037200	Cold Brook near Northern Maine Junction, Me.	Lat 44°46'39", long 68°50'59", 25 ft upstream from culvert in U.S. Highway 95, 1.1 mi upstream from mouth and 1.2 mi southeast of Northern Maine Junction.	3.06	1964-73	7-01-73	7.99	280
		GOOSE RIVER BASIN					
01037430	Goose River at Rockport, Me.	Lat 44°11'21", long 69°04'49", 7 ft upstream from culvert in U.S. Highway 1, 2,000 ft upstream from mouth and 0.4 mi northwest of Rockport.	8.32	1964-73	7-01-73	6.91	498
		KENNEBEC RIVER BASIN					
01041900	Mountain Brook near Lake Parlin, Me.	Lat 45°28'12", long 70°03'54", at culvert in U.S. Highway 201, 1.8 mi upstream from mouth and 3.8 mi southeast of Lake Parlin.	3.91	1964-73	7-05-73	10.05	918
01046800	South Branch Carrabassett River at Bigelow, Me.	Lat 45°04'45", long 70°19'03", at bridge in State Highway 27, 3,000 ft southeast of Bigelow.	14.2	1964-73	7-05-73	8.18	1,080
01048100	Pelton Brook near Anson, Me.	Lat 44°45'58", long 69°54'32", on wingwall of abandoned highway bridge just downstream from State Highway 43, 3,600 ft upstream from mouth and 2.4 mi southwest of Anson.	14.1	1965-73	3-17-73 7-05-73	a7.43 6.21	--- 751
01049100	Hall Brook at Thorndike, Me.	Lat 44°34'52", long 69°16'50", at culvert in State Highway 139, 0.2 mi northwest of Thorndike and 0.3 mi upstream from mouth.	5.23	1964-73	7-05-73	4.54	139
01049700	Gardiner Pond Brook at Dresden Mills, Me.	Lat 44°06'29", long 69°43'21", 15 ft upstream from culvert in town road from Dresden Mills to Head Tide, 600 ft upstream from mouth and in the northeast section of the village of Dresden Mills.	8.19	1965-73	11-26-72	4.59	129
		ANDROSCOGGIN RIVER BASIN					
01050900	Four Ponds Brook near Houghton, Me.	Lat 44°49'55", long 70°42'08", 25 ft upstream from culvert in State Highway 17, 5,000 ft upstream from mouth and 6.8 mi north of Houghton.	3.41	1964-73	7-03-73	5.38	105
01055300	Bog Brook near Buckfield, Me.	Lat 44°15'57", long 70°18'58", 15 ft upstream from culvert in State Highway 117, 900 ft upstream from mouth and 3 mi southeast of Buckfield.	10.5	1964-73	4-02-73	7.40	208

a Affected by backwater from ice.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		PRESUMPSCOT RIVER BASIN					
01062700	Patte Brook near Bethel, Me.	Lat 44°20'41", long 70°47'32", 15 ft upstream from culvert in town road between State Highway 5 and West Bethel, 1,800 ft upstream from mouth, and 4.5 mi south of Bethel.	5.35	1965-73	7-01-73	6.34	664
		JONES CREEK BASIN					
01064200	Mill Brook near Old Orchard Beach, Me.	Lat 43°32'40", long 70°23'31", on abutment of dismantled bridge, 75 ft upstream from culvert in Portland Avenue, 1.7 mi upstream from mouth and 2 mi northwest of Old Orchard Beach.	2.23	1965-73	4-02-73	4.96	208
		SACO RIVER BASIN					
01066100	Pease Brook near Cornish, Me.	Lat 43°47'19", long 70°45'58", 5 ft upstream from culvert in State Highway 25, 1,200 ft upstream from mouth and 2 mi southeast of Cornish.	4.62	1965-73	7-01-73	4.43	211
		LITTLE RIVER BASIN					
01069700	Branch Brook near Kennebunk, Me.	Lat 43°22'44", long 70°34'56", on wingwall of culvert in State Highway 9-A, 2.1 mi west of Kennebunk, and 3.3 mi upstream from mouth.	10.7	1965-73	4-02-73	6.56	480

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Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1973

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
ST. JOHN RIVER BASIN						
Presque Isle Stream	Aroostook River	Lat 46°41'07", long 68°00'56", Aroostook County, at bridge on Park Street, at Presque Isle, Me.	-----	-----	4-23-73	3,470
Aroostook River	St. John River	Lat 46°37'57", long 68°25'09", Aroostook County, at bridge on State Highway 11, 0.7 mi west of Ashland, Me.	-----	1972	4-24-73	22,100
Meduxnekeag River	St. John River	Lat 46°08'32", long 67°49'26", Aroostook County, at bridge on Interstate Highway 95, at Houlton, Me.	-----	1972	4-24-73	4,320
PENOBSCOT RIVER BASIN						
Molunkus Stream	Mattawamkeag River	Lat 45°53'30", long 68°24'12", Aroostook County, at bridge on Interstate Highway 95, 1.7 mi north of Sherman, Me.	-----	1972	4-25-73	646
Salmon Stream	Penobscot River	Lat 45°38'34", long 68°30'15", Penobscot County, at bridge on Interstate Highway 95, 2.6 mi north of Medway, Me.	-----	1972	4-25-73	764
Mattamiscontis Stream	Penobscot River	Lat 45°21'48", long 68°36'37", Penobscot County, at bridge on Interstate Highway 95, 9 mi north of Howland, Me.	-----	1972	4-23-73	749
West Branch Mattawamkeag River	Mattawamkeag River	Lat 46°01'38", long 68°17'18", Aroostook County, at bridge on Interstate Highway 95, 1.6 mi northwest of Island Falls, Me.	-----	1972	4-25-73	2,000
KENNEBEC RIVER BASIN						
West Outlet Stream	Kennebec River	Lat 45°39'06", long 69°44'43", Somerset County, just downstream from West Outlet dam of Moosehead Lake, near Rockwood, Me.	-----	(many)	10-10-72	19.2
					11-09-72	35.9
					2-26-73	39.8
					3-23-73	38.1
					4-11-73	37.5
					6-08-73	75.1
					7-16-73	60.8
Messalonskee Stream	Kennebec River	Lat 44°34'00", long 68°39'04", Kennebec County, at highway bridge on North Street, at Waterville, Me.	-----	1972	7-05-73	1,400
ANDROSCOGGIN RIVER BASIN						
Sevenmile Stream	Androscoggin River	Lat 44°34'29", long 70°18'51", Oxford County at Walton bridge on State Highway 2, at East Dixfield, Me.	-----	-----	4-20-73	41.1
Little Androscoggin River	Androscoggin River	Lat 44°05'17", long 70°20'02", Androscoggin County, at bridge on State Highway 121, at Hackett Mills, Me.	-----	-----	4-03-73	2,990
SACO RIVER BASIN						
Saco River	Atlantic Ocean	Lat 43°52'42", long 70°48'15", Oxford County, at bridge on State Highway 5, at Hiram, Me.	-----	1972	5-25-73	6,600

PART 2. WATER QUALITY RECORDS

01020000 St. Croix River near Baileyville, Maine

(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36", Washington County, in township of Baileyville, at gaging station on right bank 700 ft (213 m) downstream from powerhouse of Georgia-Pacific Corporation, at Grand Falls, and 8 miles (13 km) upstream from village of Woodland.

DRAINAGE AREA.--1,320 sq mi (3,419 sq km).

PERIOD OF RECORD.--Chemical analyses: April 1972 to January 1973 (discontinued).

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED SILICA (SIO2)	TOTAL MANGA-NESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)
OCT.													
19...	1,440	6.5	1.6	20	4.8	.7	1.5	.3	10	0	6.0	2.0	.1
NOV.													
29...	3,870	1.0	2.7	0	3.6	.7	1.7	.4	9	0	5.9	2.1	.0
DEC.													
27...	2.030	0.0	3.4	0	4.0	.7	1.9	.1	10	0	5.7	2.0	.0
JAN.													
31...	3,060	0.5	3.5	20	4.0	.7	1.8	.2	8	0	6.5	2.0	.1

DATE	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL PHOS-PHATE (PO4)	TOTAL PHOS-PHORUS (P)	TOTAL IRON (FE) (UG/L)	HARD-NESS (CA,MG)	NON-CAR-BONATE HARD-NESS	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN	BIO-OXY-GEN DE-MAND	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)
OCT.													
19...	.0	.00	.02	.01	220	15	7	34	6.7	10.5	.7	8	2
NOV.													
29...	.1	.03	.03	.01	300	12	4	37	6.3	13.0	-	-	-
DEC.													
27...	.2	.05	.01	.00	180	13	5	38	5.8	10.4	-	-	-
JAN.													
31...	.4	.08	.00	.00	190	13	6	38	6.0	9.0	-	47	2

DATE	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	ALKA-LINITY AS CACO3	CARBON DIOXIDE (CO2)
OCT.									
19...	0	20	0	6	<.5	0	6	8	3.2
NOV.									
29...	0	50	0	10	<.5	0	4	7	7.2
DEC.									
27...	0	20	0	30	<.5	0	3	8	25.0
JAN.									
31...	0	30	0	20	<.5	0	4	7	13.0

01020000 St. Croix River near Baileyville, Maine--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS					SUSPENDED SOLIDS		
DATE	URANIUM (UG/L)	RADIUM (PC/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
OCT.								
19...	.03	.1	.5	2.4	34	.4	.4	1

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

WATER SAMPLE

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	LIN-DANE	CHLOR-DANE	PCB	2,4-D	2,4 5-T	SILVEX
OCT.													
19...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00
JAN.													
31...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00

DATE	DIAZ-INON	ETHION	MALA-THION	METHYL PARA-THION	METHYL TRI-THION	PARA-THION	TRI-THION	HEPTA-CHLOR EPOXIDE	TOX-APHENE
OCT.									
19...	.00	.00	.00	.00	.00	.00	.00	.00	.0
JAN.									
31...	.00	.00	.00	.00	.00	.00	.00	.00	.0

01021000 St. Croix River at Baring, Maine

LOCATION.--Lat 45°08'12", long 67°19'05", Washington County, temperature recorder at gaging station on right bank at site of destroyed international highway bridge at Baring.

DRAINAGE AREA.--1,370 sq mi (3,548 sq km).

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1973

EXTREMES, 1972-73.--Water temperatures: Maximum, 27.0°C July 28; minimum, freezing point on many days during December through March.

EXTREMES, 1959-73.--Water temperatures: Maximum, 30.5°C July 28, 1963; minimum, freezing point on many days during winter months.

REMARKS.--Discharge records unpublished.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.5	6.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	14.5	13.0	6.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	14.5	13.0	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
4	14.5	13.5	5.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
5	14.0	13.5	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
6	14.5	13.0	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0
7	13.5	13.0	4.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
8	13.5	13.0	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
9	13.0	11.5	4.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
10	11.5	10.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
11	11.5	10.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
12	10.5	10.5	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
13	10.5	9.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
14	9.5	8.5	3.0	3.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0
15	9.5	8.5	3.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5
16	9.0	8.0	2.0	1.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
17	9.0	8.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
18	8.5	7.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
19	7.0	6.5	1.5	1.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
20	6.5	6.0	1.5	1.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
21	6.5	5.0	1.0	0.5	0.0	0.0	0.0	0.0	1.0	0.5	0.5	0.5
22	6.0	5.5	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
23	7.0	6.0	0.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0
24	7.0	6.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
25	6.5	6.0	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0
26	7.0	6.5	1.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5
27	7.0	6.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
28	6.5	6.5	1.0	1.0	0.0	0.0	0.0	0.0	0.5	0.0	1.5	0.5
29	8.5	6.5	1.0	0.5	0.0	0.0	0.0	0.0	---	---	1.5	0.5
30	8.0	6.5	0.5	0.5	0.0	0.0	0.0	0.0	---	---	2.0	1.0
31	6.5	6.0	---	---	0.0	0.0	0.0	0.0	---	---	3.0	1.5
MONTH	14.5	5.0	6.5	0.5	1.5	0.0	0.5	0.0	1.0	0.0	3.0	0.0

01021000 St. Croix River at Baring, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	2.0	8.0	7.0	18.0	16.0	23.0	21.5	25.0	24.5	24.0	23.0
2	3.0	2.0	8.5	7.0	18.5	16.5	22.0	21.5	24.5	24.0	24.5	23.5
3	2.0	1.5	8.5	8.5	18.5	16.5	23.5	21.0	24.0	18.0	24.5	23.5
4	1.5	1.0	8.5	8.0	19.5	17.0	23.5	21.0	23.0	23.0	24.0	23.0
5	1.0	1.0	9.0	8.5	19.5	18.0	21.5	21.0	24.5	23.0	24.0	22.0
6	1.5	1.0	9.0	8.5	18.5	18.0	24.5	21.5	24.0	23.5	23.0	22.0
7	2.0	1.5	8.5	8.5	18.5	18.0	24.0	22.0	24.5	23.0	23.0	21.0
8	2.0	1.5	10.0	8.5	20.5	18.0	25.0	23.5	24.5	23.5	21.0	20.5
9	3.0	2.0	10.5	9.5	20.5	18.5	26.0	24.5	24.0	23.5	20.5	19.5
10	3.0	2.0	10.0	10.0	22.0	18.5	26.0	24.5	24.5	24.0	20.0	19.0
11	3.0	2.0	11.0	10.0	22.0	20.5	25.0	25.0	24.5	24.0	19.0	18.5
12	2.0	1.5	13.0	11.0	23.5	21.0	25.0	24.0	25.0	24.0	19.0	18.0
13	3.0	2.0	13.0	12.0	23.5	21.5	25.0	24.0	25.0	24.0	18.5	17.0
14	3.5	2.0	13.5	13.0	24.0	22.0	24.0	23.5	24.5	23.5	18.0	17.0
15	4.5	3.0	14.5	13.0	23.0	21.5	23.5	23.0	23.5	23.0	18.5	17.0
16	5.5	4.0	14.0	13.5	21.5	20.0	24.5	23.0	23.5	22.0	17.0	16.5
17	6.5	5.0	14.0	13.5	20.5	19.5	25.0	23.0	24.5	22.0	18.0	16.0
18	8.0	5.5	14.0	13.0	21.5	19.0	24.0	23.5	25.0	23.0	16.5	16.0
19	8.5	5.0	13.5	13.0	22.0	19.5	26.0	23.5	25.0	23.0	16.5	15.5
20	7.0	5.0	14.5	13.0	23.0	19.5	25.5	24.0	25.0	23.0	16.0	15.0
21	8.0	5.5	13.5	11.0	23.5	20.5	25.0	24.0	25.0	23.0	16.0	15.0
22	8.0	8.0	13.5	11.5	21.0	21.0	26.0	24.0	23.5	23.0	15.0	14.0
23	9.5	6.0	12.0	11.5	22.0	21.0	26.0	24.0	24.0	22.0	14.5	14.5
24	8.0	6.0	11.5	11.5	23.0	21.0	27.0	24.0	24.0	23.0	15.0	14.0
25	8.5	6.5	11.5	11.5	22.0	21.5	27.0	24.5	24.0	21.5	15.5	14.0
26	7.0	6.5	11.5	11.5	24.0	21.5	26.0	25.0	23.5	21.5	16.0	14.0
27	6.5	6.5	12.0	11.5	23.0	21.5	25.5	25.0	23.5	21.5	15.5	14.0
28	8.0	6.0	13.0	12.0	22.0	21.5	27.0	25.0	23.5	22.0	15.5	14.5
29	8.0	7.0	14.0	13.0	23.0	21.5	25.5	24.5	24.0	21.5	15.5	14.5
30	8.0	7.0	16.0	14.0	23.0	21.5	26.0	24.5	24.0	22.0	15.0	14.0
31	---	---	16.0	15.5	---	---	26.5	24.5	24.5	23.0	---	---
MONTH	9.5	1.0	16.0	7.0	24.0	16.0	27.0	21.0	25.0	18.0	24.5	14.0
YEAR	27.0	0.0										

01021050 St. Croix River at Milltown, Maine

LOCATION.--Lat 45°10'11", long 67°17'05", Washington County, at international highway bridge at Milltown.

DRAINAGE AREA.--1,460 sq mi (3,780 sq km).

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1973.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL KJEL-DAHL NI-TROGEN (N)	DIS-SOLVED AMMONIA NITROGEN (N)	TOTAL PHOS-PHORUS (P)	METHY-LENE BLUE ACTIVE SUB-STANCE (MBAS)	TUR-BID-ITY (JTU)	CHLORO-PHYLL A (UG/L)	SPE-CIFIC CON-DUCTANCE (MICRO MHOS)	PH UNITS	DIS-SOLVED OXY-GEN
OCT. 31...	2,280	4.0	.0	.00	.45	-	.03	.05	4	4.7	90	6.7	10.5
NOV. 29...	4,320	2.0	.9	.20	.40	-	-	.03	2	3.3	52	6.0	10.4
DEC. 27...	2,020	0.0	.0	.00	.66	-	.02	.03	2	1.8	48	6.3	7.8
JAN. 31...	3,640	0.0	.0	.00	.26	-	.00	.04	4	1.4	58	6.1	11.4
FEB. 22...	2,640	0.0	.1	.02	.50	-	.03	.04	2	1.4	82	6.6	11.4
MAR. 29...	6,500	3.5	.1	.03	.17	-	.02	.04	1	1.2	53	6.5	11.4
APR. 19...	6,750	8.5	.0	.00	.25	-	.01	.04	1	0.0	42	6.6	10.2
MAY 23...	8,660	10.0	.1	.01	.54	-	.01	.08	3	3.3	40	6.5	9.8
JUNE 28...	2,710	20.5	-	-	-	-	-	-	-	1.2	87	7.6	5.2
JULY 31...	2,360	24.0	.2	.04	.31	.10	.02	.02	2	4.3	58	6.5	3.6
AUG. 30...	2,500	21.5	.1	.02	.27	.06	.03	.03	2	1.0	70	6.6	4.1
SEPT. 27...	2,280	14.5	.0	.00	.23	.07	.02	.04	3	4.3	70	6.6	6.7

DATE	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)	CHEM-ICAL OXYGEN DEMAND	TOTAL PHOS-PHATE (PO4)	DIS-SOLVED NI-TRITE (NO2)	DIS-SOLVED NI-TRITE (N)	COLOR PLAT-INUM COBALT UNITS)	SUS-PENDED SOLIDS	DIS-SOLVED SOLIDS (RESI-DUE AT 180° C)	TOTAL ORGANIC CARBON (C)	PHENOLS (UG/L)	OIL AND GREASE
OCT. 31...	1,000	20	46	.10								
NOV. 29...	1,200	17	36	-								
DEC. 27...	190	11	19	.08								
JAN. 31...	220	-	37	.02								
FEB. 22...	290	4	30	.10								
MAR. 29...	620	8	16	.05								
APR. 19...	250	2	21	.04								
MAY 23...	800	28	60	.03	.00	.00						
JUNE 28...	3,300	25	-	-	-	-						
JULY 31...	1,800	90	36	.08	.00	.01						
AUG. 30...	4,100	350	32	.10	.00	.00						
SEPT. 27...	7,200	160	37	.07	.02	.00	50	8.8	45	12	3	-

01021050 St. Croix River at Milltown, Maine--Continued

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN	DDD	DDE	DDT	DIELDRIN	ENDRIN	HEPTACHLOR	LINDANE	CHLORDANE	PCB	2,4-D	2,4 5-T	SILVEX
SEPT.													
27...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00

DATE	DIAZINON	ETHION	MALATHION	METHYLTRITHION	PARATHION	METHYL PARATHION	TOXAPHENE	HEPTACHLOR EPOXIDE
SEPT.								
27...	.00	.00	.00	.00	.00	.00	.0	.00

01034500 Penobscot River at West Enfield, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, temperature and specific conductance recorder at gaging station on left bank at downstream side of highway bridge, 1,000 ft (300 m) downstream from Piscataquis River and 1 mi (2 km) southwest of West Enfield.

DRAINAGE AREA.--6,670 sq mi (17,275 sq km), including 249 sq mi (645 sq km) drained by Chamberlain Lake through Telos Canal.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1973.
Water temperatures: July 1966 to September 1973.

EXTREMES, 1972-73.--Water temperatures: Maximum, 25.0°C July 25, 26, 31, Aug. 1; minimum, freezing point on many days during November through March.

EXTREMES, 1966-73.--Water temperatures: Maximum, 27.0°C July 29, 30, 1970; minimum, freezing point on many days during winter months.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2)	DIS-SOLVED CAL-CIUM (CA)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)	CARBON DI-OXIDE (CO2)	TUR-BID-ITY (JTU)
OCT. 25...	8,140												
NOV. 21...	11,400	3.8	5.5	1.2	3.4	.5	16	0	11	2.4	.0	6.4	
DEC. 21...	15,000												
JAN. 24...	13,000	4.3	6.6	1.4	4.3	.4	15	0	13	4.0	.0	24	4
FEB. 26...	9,500	4.5	6.5	1.2	3.3	.4	15	0	11	2.3	.0	6.0	2
MAR. 22...	29,600	3.8	5.7	1.0	2.6	.2	14	0	8.7	2.2	.0	5.6	1
APR. 17...	22,700	4.0	6.5	1.0	2.9	.5	16	0	9.5	1.6	.2	4.1	3
MAY 30...	30,900	3.5	5.0				14	0	6.1	1.5	.2	2.2	3
JUNE 27...	7,890	3.5	5.6	1.2	3.3	.4	17	0	6.7	2.5	1.1	4.0	5
JULY 24...	7,210	3.3	5.8	1.2	5.3	.6	20	0	10	2.5	.2	10	2
AUG. 28...	8,030	3.3	5.1	1.3	2.9	.2	15	0	8.0	2.0	1.0	5	2
SEPT. 19...	9,380												

DATE	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL PHOS-PHORUS (P)	ALKA-LINITY AS CACO3	HARD-NESS (CA,MG)	NON-CAR-BONATE HARD-NESS	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXY-GEN	BIO-OXY-GEN DE-MAND	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL STREPT-OCOCCI (COL-ONIES PER 100 ML)
OCT. 25...							63	6.5	10.0	4.4	3,200	260	
NOV. 21...	.0	.00	.04	13	19	6	64	6.6	13.0		4,300	100	
DEC. 21...							72	6.6	12.0		1,000	68	
JAN. 24...	.1	.02	.03	12	22	10	73	6.0	11.2	2.9	2,200	100	
FEB. 26...	.1	.03	.02	12	21	9	62	6.6	13.0	2.4	550	56	110
MAR. 22...	.4	.10	.01	11	18	7	55	6.6	13.0	.8	3,900	40	59
APR. 17...	.4	.10	.02	13	20	7	56	6.8	11.6	1.0	420	40	95
MAY 30...	.2	.04	.01	11			42	6.7	9.4	2.4	510	120	59
JUNE 27...	.6	.13	.03	14	19	5	57	6.7	6.3	1.8	800	58	88
JULY 24...	.2	.04	.03	16	19	3	64	6.8	5.1	2.5	1,400	100	70
AUG. 28...	.0	.00	.00	12	18	6	53	6.7	5.9	1.8	3,400	120	83
SEPT. 19...	.0	.01	.02				63	6.6	7.0	2.9	6,200	280	100

01034500 Penobscot River at West Enfield, Maine--Continued

DATE	TOTAL ORGANIC CARBON (C)	TOTAL KJEL-DAHL NITRO-GEN (N)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 21...								250		10			
FEB. 26...	15	.44	10	1	1	10	0	260	56	40	< .5		20
MAY 30...	10	.18				0					< .5	3	10
JUNE 27...		.44						380		80			
JULY 24...		.33						280		50			
AUG. 28...		.23	2	0	0	0	0	380	12	70	5.5	2	20

BOTTOM DEPOSIT SAMPLE

DATE	ORGANIC CARBON (C) (G/KG)	TOTAL KJEL-DAHL NITRO-GEN (MG/KG)	TOTAL ARSENIC (AS) (UG/G)	TOTAL CAD-MIUM (CD) (UG/G)	TOTAL COBALT (CO) (UG/G)	TOTAL COPPER (CU) (UG/G)	TOTAL CHRO-MIUM (CR) (UG/G)	TOTAL IRON (FE) (UG/G)	TOTAL LEAD (PB) (UG/G)	TOTAL MAN-GANESE (MN) (UG/G)	TOTAL MERCURY (HG) (UG/G)	TOTAL SELE-NIUM (SE) (UG/G)	TOTAL ZINC (ZN) (UG/G)
MAY 30...	.3	600	3	0	6	4	6	6,200	< 10	140	0.1	0	44
AUG. 28...	3.1		3	0	< 2	15	23	3,000	360	160	0	0	30

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS, IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS					SUSPENDED SOLIDS		
DATE	URANIUM (U) (UG/L)	RADIUM (RA-226) (PC/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
OCT. 25...	.06	.02	.5	2.8	54	< .4	< .4	4
APR. 17...	.06	.03	.6	1.8	43	< .4	< .4	3

SUSPENDED SEDIMENT, CONCENTRATION AND PARTICLE SIZE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME (HR)	DIS-CHARGE (CFS)	CONCEN-TRATION (MG/L)	SIEVE DIAMETER (PERCENT FINER THAN .062 MM)	SEDIMENT DISCHARGE (TONS/DAY)
MAY 30...	1245	30,900	10	63	834
JUNE 27...	1145	7,890	8	40	170
JULY 24...	1130	7,210	8	78	156
AUG. 28...	1430	8,030	9	76	195
SEPT. 19...	1000	9,380	8	78	203

01034500 Penobscot River at West Enfield, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.5	5.0	4.5	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0
2	14.5	13.5	5.0	4.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
3	14.5	14.0	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	14.5	14.0	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	14.5	14.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	14.0	13.5	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	14.0	13.5	2.0	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
8	14.5	14.0	2.0	2.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
9	14.5	13.0	2.0	2.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0
10	13.0	11.5	2.0	2.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
11	13.0	12.0	2.0	2.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
12	13.0	12.0	2.0	2.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
13	13.0	12.0	2.0	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
14	12.0	11.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	11.5	11.0	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	11.0	10.0	1.5	1.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
17	10.0	10.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
18	10.0	9.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
19	9.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	8.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	6.5	6.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
22	6.0	5.5	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
23	6.0	5.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
24	6.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
25	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
26	5.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
27	6.0	5.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
28	6.0	5.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
29	6.5	6.0	1.0	0.5	0.0	0.0	0.0	0.0	---	---	1.5	1.0
30	6.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	---	---	1.5	1.5
31	6.0	5.0	---	---	0.0	0.0	0.5	0.0	---	---	2.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	2.0	6.0	6.0	14.5	13.0	23.0	22.0	25.0	24.5	24.5	22.5
2	2.0	1.5	6.5	6.0	14.5	14.0	22.0	21.5	24.5	23.0	24.0	23.0
3	1.5	1.5	6.5	6.5	14.5	13.5	23.0	22.0	24.5	22.5	23.5	23.0
4	1.5	1.5	7.0	6.5	15.0	14.0	22.5	22.0	24.5	24.0	23.5	22.0
5	1.5	1.0	7.0	7.0	15.0	15.0	22.0	21.5	24.0	22.5	22.0	21.0
6	2.0	1.0	8.5	7.0	15.0	14.5	22.5	21.0	23.0	22.5	21.5	20.5
7	2.0	1.5	8.5	8.0	14.5	14.0	22.5	21.5	22.5	21.5	20.0	19.5
8	3.0	2.0	9.5	8.5	16.5	14.5	23.5	22.0	23.0	21.0	19.5	18.5
9	3.0	3.0	10.0	9.5	16.5	16.0	24.0	23.0	23.5	22.5	18.5	17.5
10	3.0	2.0	10.0	10.0	18.0	16.0	24.0	23.5	24.0	22.5	18.0	16.5
11	3.0	3.0	10.0	9.5	18.5	17.0	24.0	23.5	24.0	23.0	17.5	16.5
12	3.0	3.0	10.5	9.5	19.5	18.0	23.0	22.5	24.5	22.5	17.0	16.0
13	3.0	2.0	10.5	10.0	19.0	18.5	22.5	21.5	23.5	23.0	17.0	15.5
14	3.5	3.0	11.0	10.5	19.5	19.0	22.0	21.5	23.0	22.5	16.5	15.5
15	4.5	3.5	11.0	11.0	19.5	19.0	21.5	21.0	22.0	21.0	16.5	15.5
16	5.5	4.5	11.0	11.0	19.0	17.0	23.0	20.5	21.0	20.5	16.0	15.5
17	7.0	5.5	11.0	11.0	17.0	16.5	23.5	21.5	23.0	20.5	16.0	15.0
18	7.0	7.0	11.5	11.0	18.0	16.5	23.0	22.0	24.0	21.5	15.5	14.5
19	7.0	7.0	11.5	11.0	19.0	17.0	24.0	21.5	23.5	22.0	14.5	14.0
20	7.0	6.5	11.5	11.0	20.0	18.5	23.5	23.0	23.5	22.0	15.0	14.5
21	6.5	6.0	11.5	11.0	21.0	19.5	23.5	22.0	24.0	22.5	14.5	13.5
22	6.0	6.0	11.0	11.0	21.0	20.0	24.5	22.5	23.0	22.0	13.5	12.5
23	7.0	6.0	11.0	10.5	21.0	20.5	24.0	22.5	22.0	20.5	13.0	12.5
24	7.0	6.5	10.5	10.0	22.0	21.0	24.0	21.5	22.5	20.5	13.5	12.5
25	7.0	7.0	10.0	10.0	22.0	22.0	25.0	23.0	21.5	20.0	14.0	12.5
26	7.0	7.0	10.5	10.0	23.0	21.0	25.0	23.5	22.0	20.5	14.0	12.5
27	7.0	7.0	11.0	10.5	23.0	22.0	24.0	22.5	22.0	20.5	14.5	13.0
28	7.0	7.0	11.0	11.0	23.0	21.5	24.0	22.5	22.5	20.5	15.0	14.0
29	7.0	6.0	11.5	11.0	22.0	22.0	24.0	23.0	23.0	20.5	14.5	13.5
30	6.0	6.0	13.0	11.5	23.0	22.0	24.5	22.5	23.5	22.0	14.0	13.0
31	---	---	13.0	13.0	---	---	25.0	24.0	24.5	22.5	---	---

01034500 Penobscot River at West Enfield, Maine--Continued

24-HOUR DISSOLVED OXYGEN CONCENTRATION AND PERCENT SATURATION, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME (HR)	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
JULY					
26...	1000	5,820	24.0	5.6	66
26...	1200	5,520	24.0	5.7	67
26...	1400	5,430	24.0	5.8	68
26...	1600	5,400	24.0	5.8	68
26...	1800	5,430	24.0	5.9	69
26...	2000	5,470	24.0	6.1	72
26...	2200	5,540	24.0	6.2	73
26...	2400	5,660	24.0	6.4	75
27...	0200	5,800	24.0	6.6	78
27...	0400	5,960	24.0	6.3	74
27...	0600	6,100	23.5	6.2	72
27...	0800	6,200	23.0	5.6	64
27...	1000	6,340	23.0	6.2	71

BIOLOGICAL DETERMINATIONS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PHYTOPLANKTON

DATE	TOTAL COUNT (CELLS/ML).	CODOMINANTS	PERCENT COMPOSITION
APR. 17...	40	CYCLOTELLA SYNEDRA	67 33
MAY 30...	100	FRAGILARIA TETRALLANTOS	38 25
JUNE 27...	6,300	LYNGBYA	90
JULY 24...	3,500	LYNGBYA	81
SEPT. 19...	3,100	LYNGBYA ANACYSTIS	51 28

BENTHIC INVERTEBRATES

DATE	TOTAL COUNT	BIOMASS (G/SQ M)	IDENTIFICATION
JULY 24...	14	4.8	ANNELIDA (HIRUDINEA)-1, EPHEMEROPTERA-1, PLECOPTERA-3, TRICHOPTERA-2, DIPTERA (CHIRONOMIDAE)-7.
SEPT. 27...	15	2.2	AMPHIPODA-1, PLECOPTERA-3, TRICOPTERA-2, DIPTERA (CHIRONOMIDAE)-7, DIPTERA (RHAGIONIDAE)-1, PELECYPODA-1.

01046500 Kennebec River at Bingham, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, at gaging station on right bank at Bingham, 200 feet (61 m) downstream from highway bridge, 0.4 mile (0.6 km) downstream from Austin Stream, and 1.6 miles (2.6 km) downstream from Wyman Dam.

DRAINAGE AREA.--2,720 sq mi (7,045 sq km).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1973

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED SILICA (SIO2)	TOTAL MANGA-NESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)
OCT.													
25...	2,710	9.5											
NOV.													
21...	670	4.0	4.3	0	6.8	1.6	1.5	.6	19	0	7.0	1.4	.1
DEC.													
21...	2,900	1.0											
JAN.													
24...	950	0.5											
FEB.													
21...	6,000	0.5	4.1	0	5.0	1.0	1.3	.2	11	0	7.5	1.0	.0
MAR.													
22...	8,340	0.5											
MAY													
17...	7,180	8.5	3.8	0	5.0	.5	1.2	.0	11	0	6.5	1.0	.2
JUNE													
27...	4,490	16.5											
JULY													
24...	6,500	21.5											
AUG.													
28...	6,500	21.5	3.8	30	4.0	1.0	1.1	.3	12	0	6.4	1.0	.5
SEPT.													
19...	4,320	17.5											

DATE	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL PHOS-PHATE (PO4)	TOTAL PHOS-PHORUS (P)	TOTAL IRON (FE) (UG/L)	HARD NESS (CA,MG)	NON-CAR-BONATE HARD NESS	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXY-GEN	BIO-OXY-GEN DE-MAND	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)
OCT.													
25...								40	6.6	8.8	.2	5	1
NOV.													
21...	.4	.10	.04	.01	210	24	8	56	6.8	10.5	-	11	8
DEC.													
21...								41	6.5	13.6	-	5	1
JAN.													
24...								41	6.6	11.0	.5	9	2
FEB.													
21...	.9	.20	.01	.00	160	17	8	42	6.4	11.6	-	3	0
MAR.													
22...								40	6.6	12.0	.1	9	1
MAY													
17...	.9	.20	.02	.00	140	15	6	37	6.7	11.8	-	8	2
JUNE													
22...								36	6.6	7.0	.4	-	-
JULY													
24...								35	6.7	6.5	.6	85	5
AUG.													
28...	.3	.08	.02	.01	70	14	4	37	6.6	6.4	.5	220	9
SEPT.													
19...								38	6.7	7.7	.5	31	7

01054200 Wild River at Gilead, Maine

(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, temperature recorder at gaging station on left bank at upstream side of highway bridge on U.S. Route 2, 1,800 ft (550 m) upstream from mouth, and 0.4 mi (0.6 km) west of Gilead.

DRAINAGE AREA.--69.5 sq mi (180 sq km).

PERIOD OF RECORD.--Chemical analyses: Augusta 1967 to September 1973.
Water temperatures: July 1964 to September 1973.

EXTREMES, 1972-73.--Water temperatures: Maximum, 26.0°C Aug. 31, Sept. 2; minimum, freezing point on many days during November to April.

EXTREMES, 1964-73.--Water temperatures: Maximum, 29.0°C one day in August 1965; minimum, freezing point on many days during winter months.

REMARKS.--Temperature recorder inoperative July 27 to Aug. 8, range in temperature 16.0 - 23.5°C; Sept. 22-26, range in temperature 6.5 - 11.5°C.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA)	DISSOLVED POTASSIUM (K)	BICARBONATE (HCO3)	CARBONATE (CO3)	DISSOLVED SULFATE (SO4)	DISSOLVED CHLORIDE (CL)	DISSOLVED FLUORIDE (F)
OCT. 26...	47												
NOV. 28...	298	4.8	260	0	2.0	.5	1.2	.4	3	0	6.5	.9	.1
DEC. 27...	79												
JAN. 30...	125	6.0	30	0	3.8	.5	1.1	.3	3	0	5.7	.5	.1
FEB. 23...	93												
MAR. 27...	338	5.1	170	0	2.0	.5	2.3	.2	7	0	5.5	3.5	.0
APR. 26...	460												
MAY 31...	245	5.0	110	0	1.8	.4	.9	.3	6	0	3.6	.4	.2
JUNE 25...	119												
JULY 25...	64	6.9	110	10	1.8	.5	1.3	.3	6	0	8.0	.3	.2
AUG. 31...	22												
SEPT. 26...	38	7.8	90	10	1.7	.6	1.5	.4	6	0	4.4	.5	.3

DATE	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	TOTAL PHOSPHATE (PO4)	TOTAL PHOSPHORUS (P)	ALKALINITY AS CACO3	HARDNESS (CA,MG)	NON-CARBONATE HARDNESS	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN	BIO-OXYGEN DEMAND	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 26...								26	6.6	12.0			
NOV. 28...	.2	.04	.01	.00	2	7	5	25	6.2	12.4	.2	40	1
DEC. 27...										12.2			
JAN. 30...	.4	.08	.02	.01	2	12	9	26	6.1	13.6	.8	34	1
FEB. 23...										13.0			
MAR. 27...	.2	.04	.01	.00	6	7	1	21	6.3	12.0	.0	15	3
APR. 26...										10.2			
MAY 31...	.1	.01	.00	.00	5	6	1	19	6.3	10.4	.5	100	87
JUNE 25...										9.1			
JULY 25...	.0	.00	.01	.00	5	7	2	21	6.7	8.3	.4	13	9
AUG. 31...										7.8			
SEPT. 26...	.0	.00	.00	.00	5	7	2	25	6.7	11.3	.4	220	1

01054200 Wild River at Gilead, Maine--Continued

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL SILVER (AG) (UG/L)
OCT. 26...	0	0	0	1	0	2	< .5	4	0	-	-	-	-
MAR. 27...	0	-	0	2	0	0	< .5	2	0	-	-	-	-
SEPT. 26...	-	-	-	-	-	-	< .5	-	-	100	0	< 10	0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS					SUSPENDED SOLIDS		
DATE	URANIUM (U) (UG/L)	RADIUM (RA-226) (PC/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
SEPT. 26...	.04	.01	< .6	1.5	26	< .4	< .4	1

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

WATER

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	HEPTA-CHLOR EPOXIDE	LIN-DANE	CHLOR-DANE	PARA-THION	METHYL PARA-THION	MALA-THION
SEPT. 26...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	.00	.00	.00

DATE	DIAZ-INON	2,4-D	SILVEX	2,4,5-T	PCB
SEPT. 26...	.00	.00	.00	.00	.0

BOTTOM DEPOSITS

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	HEPTA-CHLOR EPOXIDE	LIN-DANE	CHLOR-DANE	PCB
SEPT. 26...	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0

01054200 Wild River at Gilead, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.0	4.0	1.5	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.0
2	11.0	8.5	3.5	3.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
3	11.5	8.5	4.5	3.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
4	13.0	10.0	4.0	2.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
5	14.5	11.0	2.0	1.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
6	13.5	10.0	3.0	1.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
7	13.0	11.0	3.5	2.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
8	12.0	10.5	3.0	2.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0
9	10.5	7.0	2.0	0.5	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0
10	8.5	5.5	3.5	1.5	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
11	8.0	5.0	3.5	2.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.0
12	7.0	7.0	3.5	3.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.0
13	7.0	5.5	3.5	3.0	0.0	0.0	0.5	0.5	0.0	0.0	1.5	0.0
14	5.5	4.0	3.5	0.5	0.0	0.0	0.5	0.5	0.0	0.0	2.0	0.5
15	5.5	4.0	0.5	0.0	0.0	0.0	0.5	0.5	0.0	0.0	1.5	1.0
16	4.0	3.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	4.5	1.5
17	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.5
18	5.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5
19	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5
20	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
21	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
22	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
23	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0
24	6.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0
25	6.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.5
26	6.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0
27	6.0	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.0
28	5.0	3.5	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	4.0	0.0
29	6.0	5.0	1.0	0.0	0.5	0.0	0.0	0.0	---	---	3.5	0.5
30	6.0	4.0	0.0	0.0	0.5	0.5	0.0	0.0	---	---	5.0	1.0
31	4.0	1.5	---	---	0.5	0.5	0.5	0.0	---	---	5.5	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	3.0	9.0	4.0	11.5	10.0	15.0	13.5	---	---	24.5	21.0
2	3.0	0.0	9.5	7.0	13.5	9.5	16.0	14.0	---	---	26.0	20.5
3	1.5	0.0	10.0	7.0	14.0	8.5	17.0	14.0	---	---	24.5	20.5
4	3.5	1.0	9.0	7.0	12.0	9.5	17.0	15.5	---	---	24.0	20.5
5	1.5	0.0	8.0	6.5	11.0	10.5	16.5	15.0	---	---	21.5	20.5
6	3.5	0.5	8.5	6.0	14.5	10.5	18.0	14.5	---	---	20.5	17.0
7	5.0	0.5	11.0	6.0	15.0	12.0	19.0	14.5	---	---	18.0	15.5
8	4.5	1.0	11.0	6.5	16.0	12.0	20.5	16.5	---	---	16.0	13.5
9	5.0	0.0	10.0	8.0	16.5	13.5	22.0	18.0	23.5	19.0	14.5	12.0
10	2.0	0.0	10.0	6.5	19.0	14.0	20.0	17.0	24.0	20.0	16.5	11.0
11	1.5	0.0	9.5	8.0	20.5	15.0	18.5	16.5	22.0	19.5	16.5	11.5
12	0.5	0.0	8.5	7.0	20.0	16.5	18.0	15.0	23.5	18.5	16.0	13.0
13	3.5	0.0	8.5	7.0	18.0	15.0	16.0	14.0	21.0	18.5	15.5	11.0
14	5.0	0.0	9.5	6.5	18.0	13.5	16.5	14.5	20.0	18.0	14.0	11.0
15	6.0	0.5	9.0	6.5	15.5	12.0	16.0	14.5	18.5	16.5	14.0	12.0
16	6.5	1.0	10.5	8.0	14.0	9.5	19.5	14.0	21.0	16.0	14.5	12.0
17	4.5	1.5	10.0	6.5	13.0	9.0	20.0	14.5	23.0	16.0	15.0	10.0
18	6.0	1.5	9.5	6.5	11.0	9.0	17.0	14.5	24.5	18.5	11.5	10.5
19	6.5	2.0	7.0	6.0	15.0	9.5	20.5	14.0	23.5	19.0	13.0	9.5
20	6.0	1.5	9.5	6.5	16.5	11.5	18.5	16.0	24.0	18.0	11.5	9.5
21	6.5	3.0	9.0	7.0	18.0	14.5	19.0	15.5	23.5	18.0	11.5	8.0
22	5.5	4.5	8.0	7.0	16.5	15.5	20.5	15.0	20.0	18.0	---	---
23	7.0	4.5	11.0	6.5	17.0	15.0	20.5	15.0	21.0	15.0	---	---
24	7.0	4.5	11.5	8.0	20.5	15.5	21.5	15.5	21.5	16.0	---	---
25	9.0	5.5	10.5	9.0	19.5	16.5	22.0	16.5	21.5	14.5	---	---
26	6.5	5.0	11.0	8.5	20.5	16.0	20.0	18.0	21.0	17.0	---	---
27	6.0	5.0	11.5	9.0	19.5	16.0	---	---	23.0	18.0	14.0	9.5
28	5.5	4.5	10.0	8.5	17.0	14.5	---	---	23.0	19.0	14.5	11.5
29	5.5	5.0	11.0	8.5	16.0	14.0	---	---	24.5	18.5	11.5	9.0
30	6.5	4.5	13.5	10.0	14.0	14.0	---	---	25.0	20.0	12.0	8.5
31	---	---	11.5	11.0	---	---	---	---	26.0	20.5	---	---

01054250 Androscoggin River at Gilead, Maine

LOCATION.--Lat 44°23'52", long 70°58'23", Oxford County, 0.4 mile downstream from Wild River, and at highway bridge at Gilead.

DRAINAGE AREA.--1,600 sq mi (4,140 sq km), approximately (discontinued).

PERIOD OF RECORD.--Chemical analyses: September 1969 to June 1973.

REMARKS: No data available for winter periods, November to April.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISCHARGE (CFS)	TEMPERATURE (DEG C)	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	TOTAL KJELDAHL NITROGEN (N)	TOTAL PHOSPHATE (PO4)	TOTAL PHOSPHORUS (P)	METHYLENE BLUE ACTIVE SUBSTANCE (MBAS)	TURBIDITY (JTU)	CHLOROPHYLL A (UG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN
OCT.													
26...	2,970	5.0	.2	.05	.39	.09	.03	.04	2	5.3	78	6.5	9.8
MAY													
31...	4,110	13.0	.3	.06	.70	.10	.03	.05	2	5.1	65	6.7	8.4
JUNE													
25...	4,180	19.5	.2	.05	.30	.04	.01	.04	2	1.3	50	6.6	7.6

DATE	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)	CHEMICAL OXYGEN DEMAND
OCT.			
26...	5,100	500	34
MAY			
31...	3,700	220	34
JUNE			
25...	20,000	480	36

01055100 Androscoggin River at Jay, Maine

LOCATION.--Lat 44°30'06", long 70°13'02", Franklin County, at highway bridge 0.3 mi (0.5 km) downstream from dam, 2 mi (3 km) downstream from Sevenmile Stream, 0.5 mi (0.8 km) upstream from Mosquito Brook, and at Jay.

DRAINAGE AREA.--2,420 sq mi (6,270 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: July to September 1973

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DISCHARGE (CFS)	TEMPERATURE (DEG C)	TOTAL KJELDAHL NITROGEN (N)	DISSOLVED NITRATE (NO3)	DISSOLVED NITRITE (N)	DISSOLVED NITRATE (N)	DISSOLVED AMMONIA NITROGEN (N)	TOTAL PHOSPHORUS (P)	TURBIDITY (JTU)	TOTAL ORGANIC CARBON (C)	CHLOROPHYLL (UG/L)
JULY 18...	3,050	21.5	.28	.5	.00	.12	.00	.02	7	-	3.7
AUG. 23...	2,500	21.5	.34	.0	.01	.00	.06	.05	9	-	-
SEPT. 25...	2,600	13.0	.28	.0	.00	.00	.10	.15	15	13	1.9

DATE	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN	CHEMICAL OXYGEN DEMAND	SUSPENDED SOLIDS	DISSOLVED SOLIDS (RESIDUE AT 180° C)	COLOR (PLATINUM COBALT UNITS)	METHYLENE BLUE ACTIVE SUBSTANCE	OIL AND GREASE
JULY 18...	10,000	300	100	6.8	7.0	42	-	-	-	.04	-
AUG. 23...	5,800	1,200	130	6.7	7.4	55	-	-	-	.04	-
SEPT. 25...	17,000	720	120	6.9	8.6	50	-	92	80	.05	0

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN	DDD	DDE	DDT	DIELDRIN	ENDRIN	HEPTA CHLOR	HEPTACHLOR EPOXIDE	LINDANE	CHLORDANE	PCB
SEPT. 25...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0

DATE	2,4-D	2,4, 5-T	SILVEX	DIAZINON	ETHION	MALATHION	METHYL PARATHION	METHYL TRITHION	PARATHION	TRITHION	TOXAPHENE
SEPT. 25...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

01059000 Androscoggin River near Auburn, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, at gaging station on right bank 1.5 miles (2.4 km) downstream from Little Androscoggin River and 2.1 miles (3.4 km) downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 sq mi (8,436 sq km).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1973.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED SILICA (SIO2)	TOTAL MANGA-NESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)
OCT. 24...	3,560	8.0											
NOV. 27...	18,800	1.0	5.9	40	5.1	.9	6.8	1.2	14	0	10	7.7	.0
DEC. 26...	4,670	0.0											
JAN. 29...	7,800	0.0											
FEB. 20...	5,280	0.0	5.9	30	6.6	1.9	7.1	.7	16	0	10	8.0	.1
MAR. 21...	17,900	1.5											
APR. 16...	9,680	5.0											
MAY 29...	11,500	12.5	4.4	20	5.5	.8	4.0	.5	14	0	6	5.2	.3
JUNE 25...	10,400	19.0											
JULY 30...	4,500	24.0											
AUG. 21...	3,740	22.5	5.9	80	6.8	1.0	12.0	1.1	23	0	12	13.	.2
SEPT. 20...	4,420	16.5											

DATE	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL PHOS-PHATE (PO4)	TOTAL PHOS-PHORUS (P)	TOTAL IRON (FE) (UG/L)	HARD-NESS (CA,MG)	NON-CAR-BONATE HARD-NESS	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXY-GEN	BIO-OXY-GEN DE-MAND	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)
OCT. 24...								135	6.6	8.8	7.0	73,000	6,000
NOV. 27...	.8	.20	.40	.12	650	16	5	85	6.6	11.8	12.0	19,000	1,200
DEC. 26...								105	6.5	12.4	4.0	12,000	4,100
JAN. 29...								72	6.6	13.8	.9	31,000	-
FEB. 20...	.9	.20	.10	.03	270	24	11	86	6.6	13.2	-	25,000	3,800
MAR. 21...								57	6.6	13.0	-	4,600	420
APR. 16...								80	6.8	9.0	2.2	5,000	830
MAY 29...	.6	.13	.16	.05	470	17	6	57	6.8	9.8	1.5	35,000	4,900
JUNE 25...								55	6.8	8.5	-	23,000	1,900
JULY 30...								110	6.7	6.0	2.6	49,000	6,500
AUG. 21...	2.3	.52	.18	.06	840	21	2	120	6.7	6.2	-	60,000	6,200
SEPT. 20...								105	6.6	8.0	-	77,000	5,700

01064140 Presumpscot River near West Falmouth, Maine

LOCATION.--Lat 43°38'28", long 70°15'42", Cumberland County, 0.6 mi (1.0 km) downstream from Meader Brook, 0.9 mi (1.4 km) upstream from Piscataqua River, 0.1 mi (0.2 km) downstream from Maine Turnpike, at highway bridge 1.5 mi (2.4 km) south of West Falmouth.

DRAINAGE AREA.--590 sq mi (1,530 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: July to September 1973.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED NI-TRITE (NO2)	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRITE (N)	DIS-SOLVED NI-TRATE (N)	DIS-SOLVED AMMONIA NITRO-GEN (N)	TOTAL PHOS-PHORUS (P)	TUR-BID-ITY (JTU)	TOTAL ORGANIC CARBON (C)	CHLORO-PHYLL A (UG/L)
JULY 19...	870	22.0	.03	.19	.01	.04	.00	.03	-	4.0	-
AUG. 22...	855	23.5	.20	.08	.06	.02	.19	.04	-	5.0	-
SEPT. 24...	900	15.5	.00	.62	.00	.14	.04	.06	13	5.0	6.0

DATE	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXY-GEN	CHEM-ICAL OXYGEN DEMAND	SUS-PENDED SOLIDS	DIS-SOLVED SOLIDS (RESI-DUE AT 180° C)	COLOR (PLAT-INUM COBALT UNITS)	PHENOLS (UG/L)	OIL AND GREASE
JULY 19...	230,000	17,000	93	7.0	6.4	25	7	59	-	-	-
AUG. 22...	540,000	6,100	90	6.7	5.8	27	5	55	-	-	-
SEPT. 24...	130,000	5,600	83	7.0	8.0	18	5	51	16	0	0

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	HEPTA-CHLOR EPOXIDE	LIN-DANE	CHLOR-DANE	PCB
SEPT. 24...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0

DATE	2,4-D	2,4,5-T	SILVEX	DIAZ-INON	ETHION	MALA-THION	METHYL PARA-THION	METHYL TRI-THION	PARA-THION	TRI-THION	TOX-APHENE
SEPT. 24...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

01064150 Presumpscot River at Martin Point bridge, Portland, Maine

LOCATION.--Lat 43°41'27", long 70°14'47", Cumberland County, in tidewater just downstream from highway bridge on U. S. Route 1 at Martin Point, Portland, Maine.

DRAINAGE AREA.--615 sq mi (1,590 sq km), approximately.

PERIOD OF RECORD.--Chemical analyses: September 1969 to June 1973 (discontinued).

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME (HR)	TEMPER-ATURE (DEG C)	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL KJEL-DAHL NI-TROGEN (N)	TOTAL PHOS-PHATE (PO4)	TOTAL PHOS-PHORUS (P)	METHY-LENE BLUE ACTIVE SUB-STANCE (MBAS)	TUR-BID-ITY (JTU)	CHLORO-PHYLL A (UG/L)	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXY-GEN
DEC. 7...	1230	4.0	.2	.05	.15	.17	.06	.91	3	2.3	20,000	7.9	8.2
MAR. 28...	1500	3.5	-	.00	.21	.07	.02	1.40	2	4.3	32,500	7.9	8.8
JUNE 26...	1300	17.0	-	.00	.86	.11	.04	.54	8	2.7	20,000	7.6	6.8

DATE	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)	CHEM-ICAL OXYGEN DEMAND
DEC. 7...	430	95	9
MAR. 28...	370	78	35
JUNE 26...	8,200	900	20

01064160 Portland Harbor near Fish Point, Maine

LOCATION.--Lat 43°40'00", long 70°13'50", Cumberland County, in channel between Fish Point and Little Diamond Island in harbor at Portland, Maine.

PERIOD OF RECORD.--Chemical analyses: September 1969 to June 1973 (discontinued).

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME (HR)	TEMPERATURE (DEG C)	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	TOTAL KJELDAHL NITROGEN (N)	TOTAL PHOSPHATE (PO4)	TOTAL PHOSPHORUS (P)	METHYLENE BLUE ACTIVE SUBSTANCE (MBAS)	TURBIDITY (JTU)	CHLOROPHYLL A (UG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN
DEC.													
7...	1130	4.5	.2	.04	.16	.16	.05	.90	3	.8	42,500	7.8	8.8
MAR.													
28...	1030	3.5	.0	.00	.83	.10	.03	1.40	3	6.9	33,800	8.0	9.0
JUNE													
26...	1145	12.0	-	.00	.20	.11	.03	.80	5	2.4	32,500	7.8	8.4

DATE	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)	CHEMICAL OXYGEN DEMAND
DEC.			
7...	340	85	8
MAR.			
28...	230	41	21
JUNE			
26...	900	35	21

01064170 Portland Harbor at Fore River bridge, Portland, Maine

LOCATION.--Lat 43°38'11", long 70°15'00", Cumberland County, at most easterly bridge between Portland and South Portland over the Fore River in harbor at Portland.

PERIOD OF RECORD.--Chemical analyses: July to September 1973.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME (HR)	TEMPERATURE (DEG C)	DISSOLVED NITRITE (NO2)	DISSOLVED NITRATE (NO3)	DISSOLVED NITRITE (N)	DISSOLVED NITRATE (N)	DISSOLVED AMMONIA NITROGEN (N)	TOTAL PHOSPHORUS (P)	TURBIDITY (JTU)	METHYLENE BLUE ACTIVE SUBSTANCE	CHLOROPHYLL A (UG/L)
JULY											
19...	1045	12.0	.00	.40	.00	.08	.60	.05	-	-	-
AUG.											
22...	1200	17.0	.30	.10	.09	.03	.80	.02	-	-	-
SEPT.											
24...	1115	12.0	.00	1.02	.01	.23	.19	.05	3	.05	6.5

DATE	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN	SUSPENDED SOLIDS	DISSOLVED SOLIDS (RESIDUE AT 180° C)	COLOR (PLATINUM COBALT UNITS)	PHENOLS (UG/L)	OIL AND GREASE	CHEMICAL OXYGEN DEMAND
JULY											
19...	800	200	45,000	7.9	7.4	-	30,700	-	18	-	-
AUG.											
22...	1,400	180	40,000	8.0	7.0	-	-	-	-	2	-
SEPT.											
24...	15,000	850	35,000	8.0	7.8	0	30,700	2	0	0	8

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN	DDD	DDE	DDT	DIELDRIN	ENDRIN	HEPTACHLOR	HEPTACHLOR EPOXIDE	LINDANE	CHLORDANE	PCB
SEPT.											
24...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0

DATE	2,4-D	2,4,5-T	SILVEX	DIAZINON	ETHION	MALATHION	METHYL PARATHION	METHYL TRITHION	PARATHION	TRITHION	TOXAPHENE
SEPT.											
24...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

CHEMICAL ANALYSES OF FIELD-MEASURED SAMPLES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

STATION NUMBER	STATION NAME AND LOCATION	DRAINAGE AREA (SQ MI)	DATE SAMPLED	TIME	DISCH-ARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C)	PH (UNITS)	TEMPER-ATURE (°C)	DISS-OLVED OXYGEN (MG/L)
	ST. JOHN RIVER BASIN								
01010500	St. John River at Dickey, Me.	2,700	09-05-73	1130	2,070	61	6.9	18.5	8.6
01011000	Allagash River near Allagash, Me.	1,250	09-05-73	1200	530	63	7.2	18.5	8.8
01013500	Fish River near Fort Kent, Me.	871	09-05-73	1350	298	70	7.4	19.0	9.0
01014000	St. John River at Fort Kent, Me.	5,690	09-05-73	1315	3,690	76	7.4	18.0	9.2
01015800	Aroostook River near Masardis, Me.	888	09-04-73	1615	170	65	7.4	25.5	8.5
01016500	Machias River near Ashland, Me.	330	09-04-73	1645	47	75	7.7	25.0	8.7
01017900	Marley Brook near Ludlow, Me.	1.47	09-06-73	1130	0.09	153	7.4	14.0	8.8
	ST. CROIX RIVER BASIN								
01019000	Grand Lake Stream at Grand Lake Stream, Me.	224	08-14-73	1245	595	26	6.8	24.5	8.3
01020000	St. Croix River near Baileyville, Me.	1,320	08-14-73	1330	3,270	30	6.5	23.5	7.1
	DENNYS RIVER BASIN								
01021200	Dennys River at Dennysville, Me.	92.4	08-15-73	1200	70	37	6.6	20.5	7.9
	NARRAGUAGUS RIVER BASIN								
01022500	Narraguagus River at Cherryfield, Me.	232	08-15-73	1330	260	29	6.5	21.0	8.0
	UNION RIVER BASIN								
01023000	W. Br. Union River at Amherst, Me.	148	08-30-73	1340	98	33	6.8	23.0	8.2
	PENOBSCOT RIVER BASIN								
01029500	E. Br. Penobscot River at Grindstone, Me.	1,090	09-04-73	1300	1,100	40	6.9	21.0	7.8
01031500	Piscataquis River near Dover-Foxcroft, Me.	297	09-19-73	1230	482	40	7.0	14.0	11.0
01031600	Morrison Brook near Sebec Corners, Me.	4.37	08-16-73	1430	1.4	140	7.9	20.0	8.1
01033500	Pleasant River near Milo, Me.	324	08-16-73	1245	813	26	6.3	19.5	8.9
01036500	Kenduskeag Stream near Kenduskeag, Me.	178	08-16-73	1115	29	150	7.8	21.0	8.1
	SHEEPSCOT RIVER BASIN								
01038000	Sheepscot River at North Whitefield, Me.	148	09-21-73	1430	47	70	7.0	14.5	9.9
	KENNEBEC RIVER BASIN								
01042500	Kennebec River at The Forks, Me.	1,589	08-24-73	1345	6,660	34	6.7	21.0	8.4
01045000	Dead River at The Forks, Me.	872	08-24-73	1415	564	40	7.2	21.0	8.7
01047000	Carrabassett River near North Anson, Me.	354	08-24-73	1115	144	50	7.0	20.0	8.4
01048000	Sandy River near Mercer, Me.	514	08-24-73	0800	218	74	7.0	21.0	9.0
01049300	No. Br. Tanning Brook near Manchester, Me.	0.93	09-21-73	1315	0.52	83	7.1	13.0	9.7
	ANDROSCOGGIN RIVER BASIN								
01054300	Ellis River at South Andover, Me.	131	08-23-73	1230	42	46	6.7	16.0	8.2
01055000	Swift River near Roxbury, Me.	95.8	08-23-73	1130	26	36	6.8	17.0	9.2
01055500	Nezinscot River at Turner Center, Me.	171	08-31-73	1600	68	65	7.4	25.0	8.5
01057000	Little Androscoggin River near South Paris, Me.	76.2	08-31-73	1515	28	50	6.9	24.5	8.0
	ROYAL RIVER BASIN								
01060000	Royal River at Yarmouth, Me.	142	08-13-73	1230	95	90	7.3	23.0	8.4
	SACO RIVER BASIN								
01066000	Saco River at Cornish, Me.	1,298	08-13-73	1500	1,050	38	6.7	24.5	7.8
01066500	Little Ossipee River near South Limington, Me.	161	08-13-73	1400	66	43	6.7	24.0	6.6

Note.--All samples taken at stream gaging stations. See Part 1 for complete description of location including latitude and longitude.

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MISCELLANEOUS ANALYSES OF GROUND WATER IN MAINE

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

WELL NUMBER	DATE	LOCAL NUMBER	TOWN	DEPTH OF WELL (FT)	WATER-BEARING MATERIAL A/	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED SILICA (SIO2)	DISSOLVED CALCIUM (CA)
464619068280401	05-22-73	AR 1	PORTAGE	8	S,G,C	58	6.5	7.0	4.5	8.5
434230070273601	05-23-73	C 113	GORHAM	15	C	114	6.3	-	7.5	13
433722070270401	05-23-73	C 114	GORHAM	29	S,G	20	6.2	-	6.0	1.7
433738070253801	05-23-73	C 115	GORHAM	157	B	271	7.4	-	13	41
433557070160001	05-24-73	C 116	CAPE ELIZ.	40	B	338	6.4	-	11	28
433325070154101	05-24-73	C 119	CAPE ELIZ.	50	S,G	265	7.4	-	13	29
433803070215501	05-24-73	C 121	SCARBOROUGH	20	S,G	67	6.6	-	7.8	7.1
434407070221201	05-24-73	C 122	WINDHAM	143	B	177	7.1	-	14	12
434424070221701	05-24-73	C 123	WINDHAM	21	S,G,C	256	6.8	-	6.9	27
444219069545801	05-22-73	SM 1	MERCER	14	S	139	6.7	7.0	5.6	19
434822070482501	05-23-73	Y 1	CORNISH	24	S,G	126	7.0	9.0	4.7	14
434007070294701	05-23-73	Y 92	BUXTON	30	S,G	111	7.3	-	16	15
433204070235901	05-23-73	Y 258	OLD ORCHARD	90	B	229	8.0	-	8.3	22

WELL NUMBER	DATE	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA)	DISSOLVED POTASSIUM (K)	BICARBONATE (HCO3)	CARBONATE (CO3)	DISSOLVED SULFATE (SO4)	DISSOLVED CHLORIDE (CL)	DISSOLVED FLUORIDE (F)	DISSOLVED NITRATE (NO3)	TOTAL IRON (FE) (UG/L)
464619068280401	05-22-73	2.1	0.6	0.1	29	0	6.0	0.3	0.2	0.1	240
434230070273601	05-23-73	2.4	4.9	4.6	50	0	10	5.5	.3	.8	660
433722070270401	05-23-73	.3	1.9	.1	7	0	.0	2.0	.1	.3	50
433738070253801	05-23-73	5.1	7.2	2.9	120	0	14	15	.2	1.3	40
433557070160001	05-24-73	3.9	27	4.1	44	0	14	60	.1	1.7	140
433325070154101	05-24-73	7.7	13	4.0	108	0	27	14	.3	.2	80
433803070215501	05-24-73	1.1	3.1	.7	23	0	5.0	4.4	.1	1.3	60
434407070221201	05-24-73	3.2	22	2.2	83	0	8.5	4.5	.3	5.7	150
434424070221701	05-24-73	4.0	15	4.8	64	0	9.5	32	.3	7.5	60
444219069545801	05-22-73	3.5	2.2	2.8	81	0	5.6	1.0	.1	.5	6600
434822070482501	05-23-73	1.1	8.0	3.0	45	0	7.0	6.0	.1	9.2	60
434007070294701	05-23-73	1.8	3.2	2.6	42	0	15	2.6	.2	.0	90
433204070235901	05-23-73	13	7.8	1.7	118	0	16	6.5	.3	-	60

WELL NUMBER	DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED SOLIDS (SUM)	HARDNESS (CA,MG)	NONCARBONATE HARDNESS	DISSOLVED NITRATE (N)	DISSOLVED NITRITE (N)	CARBON DIOXIDE (CO2)	DISSOLVED ORGANIC CARBON (C)	DISSOLVED INORGANIC CARBON (C)
464619068280401	05-22-73	10	37	30	6	0.02	0.01	15	5.8	9.0
434230070273601	05-23-73	30	74	42	1	.18	.02	40	10	22
433722070270401	05-23-73	0	16	5	0	.06	.01	7.1	.0	3.0
433738070253801	05-23-73	0	159	120	25	.29	.01	7.6	.0	25
433557070160001	05-24-73	0	172	86	50	.39	.01	28	.0	14
433325070154101	05-24-73	170	161	100	16	.05	.04	6.9	.0	20
433803070215501	05-24-73	0	42	22	3	.29	.01	9.2	.0	5.5
434407070221201	05-24-73	0	113	43	0	1.3	.00	11	.0	17
434424070221701	05-24-73	0	139	84	31	1.7	.01	16	.0	17
444219069545801	05-22-73	1300	81	62	0	.11	.09	26	3.5	26
434822070482501	05-23-73	0	75	39	3	2.1	.02	7.0	.9	11
434007070294701	05-23-73	60	77	45	10	.00	.01	3.4	4.5	8.5
433204070235901	05-23-73	0	134	110	12	.00	.00	1.9	.0	23

A/ WATER-BEARING MATERIAL: B, BEDROCK; C, CLAY; G, GRAVEL; S, SAND.

PART 3. GROUND WATER RECORDS

ANDROSCOGGIN COUNTY

440227070124101 (An 1) Ernest L. Libby. Auburn. Dug unused water-table well in marine deposits, diam 48 in. (122 cm), depth 15 ft (5 m), cased with rock to 15 ft (5 m). Lsd about 220 ft (67 m) above msl. MP top of granite curb at lsd. Highest water level, 3.30 ft (1.01 m) June 16, 1960; lowest, 10.23 ft (3.12 m) Nov. 16, 1965. Records available: 1959-73.

	1972	
Oct.	15	4.65
	28	4.64
Nov.	15	4.62
	28	4.38
Dec.	15	4.50
	28	4.20
	1973	
Jan.	27	4.31
Feb.	15	4.38
	28	4.28
Mar.	28	4.35
Apr.	15	4.40
	28	4.42
May	15	4.43
May	28	4.41
June	15	4.50
	28	4.22
July	15	4.20
	28	4.33
Aug.	15	4.14
	29	4.29
Sept.	28	4.79

AROOSTOOK COUNTY

464619068280401 (Ar 1) H. L. Stevens. Portage Lake. Driven unused water-table well in till, diam 1.5 in. (3.8 cm), depth 8 ft (2 m), formerly 11 ft (3 m), cased with iron pipe 0-8 ft (0-2 m), screened 8-11 ft (2-3 m). Lsd about 930 ft (283 m) above msl. MP top of pipe, 2.0 ft (0.6 m) above lsd. Highest water level, overflowed Dec. 21, 1957; lowest, estimated 14.0 ft (4.3 m) Nov. 30, 1955. Has been dry frequently. Records available: 1942-73.

	1972	
Oct.	13	3.28
	26	3.60
Nov.	13	2.61
	28	4.04
Dec.	14	4.80
	27	5.64
	1973	
Jan.	15	7.00
Jan.	29	1.80
Feb.	13	2.50
	26	4.61
Mar.	14	1.90
	30	2.09
Apr.	12	2.40
	27	1.57
May	14	1.90
	22	.81
May	28	1.34
June	15	4.92
	28	6.42
July	13	2.88
	27	4.33
Aug.	14	6.25
	30	e 8.00
Sept.	13	e 9.30
	30	e10.70

e Water level estimated, well dry.

460657067512201 (Ar 3) J. Edward Goodin. Houlton. Drilled unused artesian well in bedrock, diam 6 in. (15 cm), depth 90 ft (27 m), cased with steel. Lsd about 370 ft (113 m) above msl. MP hole in top of pump base at lsd. Highest water level, 10.72 ft (3.27 m) Mar. 31, 1973; lowest, 25.91 ft (7.90 m) Oct. 15, 1960. Records available: 1958-73.

	1972	
Oct.	13	14.92
	31	e14.36
Nov.	18	13.79
	28	13.98
	1973	
Mar.	31	10.72
Apr.	15	12.04
May	17	12.74
	22	12.48
	28	12.53
June	30	13.42
July	12	13.49
	21	14.13
July	27	14.57
Aug.	17	15.52
	28	16.01
Sept.	30	e17.10

e Water level estimated.

CUMBERLAND COUNTY

435453070013601 (C 26) Brunswick and Topsham Water District. Brunswick. Drilled unused artesian well in stratified glacial drift, diam 12 in. (30 cm), depth 101 ft (31 m), cased with steel 0-81 ft (0-25m), screened 81-101 ft (25-31 m). Lsd 139 ft (42 m) above msl. MP base of water-level recorder at lsd. Highest water level, 28.61 ft (8.72 m) July 21, 1973; lowest, 36.41 ft (11.10 m) Feb. 10, 1966. Records available 1958-73.

Mean water level for the day, from recorder graph.

	1972	
Oct.	5	32.09
	10	32.14
	15	32.04
	20	32.17
	25	32.15
Oct.	31	32.22
Nov.	5	32.17
	10	32.09
	15	32.02
	20	31.95
	25	31.86
Nov.	30	31.68
Dec.	5	31.71
	10	31.58
	15	31.59
	31	31.55

CUMBERLAND COUNTY--Continued

435453070013601--Continued

	1973	
Jan.	5	31.50
	10	31.58
	15	31.58
	20	31.56
	25	31.47
	31	31.58
Feb.	28	31.19
Mar.	5	31.24
	10	31.13
	15	30.94
	20	30.81
	25	30.72
	31	30.70
Apr.	5	30.40
	10	30.22
Apr.	15	30.20
	20	30.18
	25	30.13
	30	30.02
May	5	29.89
	10	29.84
	15	29.76
	20	29.68
	25	29.49
	31	29.34
June	15	29.22
	20	29.18
	25	29.14
	30	29.09
July	5	28.88
	10	28.73
July	15	28.65
	20	28.61
	25	28.62
	31	28.69
Aug.	5	28.63
	10	28.62
	15	28.72
	20	28.74
	25	28.81
	31	28.88
Sept.	5	28.93
	10	28.93
	15	28.99
	20	29.08
	25	29.20
	30	29.25

HANCOCK COUNTY

444950068220601 (H 1) Norman Salisbury. Amherst. Dug unused water-table well in glacial drift, diam 18 in. (46 cm), depth 14 ft (4 m), cased with rock to 14 ft (4 m). Lsd about 330 ft (101 m) above msl. MP nail in top of vertical timber at lsd. Highest water level, 2.10 ft (0.64 m) May 29, 1961; lowest, estimated 17.8 ft (5.4 m) Sept. 30, 1965. Has been dry frequently. Records available: 1943-73.

	1972	
Oct.	11	9.20
	27	8.80
Nov.	12	5.50
	27	4.20
Dec.	11	4.40
	27	6.00
	1973	
Jan.	12	j
Jan.	27	4.70
Feb.	12	j
	26	6.20
Mar.	11	4.40
	27	5.20
Apr.	14	4.70
	26	5.90
May	12	5.30
	29	5.30
June	11	6.60
	28	6.70
July	13	7.20
	27	7.00
Aug.	12	7.10
	26	9.00
Sept.	13	9.30
	27	9.40

j Well frozen, water level not estimated.

KENNEBEC COUNTY

441849069442001 (K 52) Walter Panek. Augusta. Dug unused water-table well in glacial till, diam 36 in. (91 cm), depth 22 ft (7 m). Lsd about 220 ft (67 m) above msl. MP top of floor of shelter house at lsd. Highest water level, 3.46 ft (1.05 m) Nov. 30, 1963; lowest, 14.29 ft (4.36 m) Oct. 31, 1963. Records available: 1960-73.

Mean water level for the day, from recorder graph.

	1972	
Oct.	30	h5.00
Nov.	28	h4.23
Dec.	27	h6.05
	1973	
Jan.	26	h4.38
Feb.	25	6.14
	28	6.29
Mar.	5	5.68
	10	4.30
	15	4.32
	20	4.27
Mar.	25	4.72
	31	4.85
Apr.	5	4.05
	10	4.57
	15	4.95
	20	5.34
	25	5.71
	30	4.23
May	5	4.95
	10	5.53
	15	5.37
	20	5.06
May	25	4.52
	31	5.14
June	5	5.72
	10	6.03
	15	5.95
	20	5.10
	25	5.74
	30	4.69
July	5	3.92
	30	h7.10
Aug.	28	h7.17
Sept.	30	8.72

h Instantaneous measurement, made manually.

442023069553801 (K 88) A. Allen Stackpole. Winthrop. Drilled unused artesian well in bedrock, diam 6 in. (15 cm), depth 298 ft (91 m), cased with steel. Lsd about 350 ft (107 m) above msl. MP top of pipe at lsd. Highest water level, 35.26 ft (10.75 m) Apr. 17, 1972; lowest, 59.86 ft (18.25 m) Oct. 31, 1962. Records available: 1962-73.

	1972	
Oct.	30	51.74
Nov.	28	48.77
Dec.	29	50.16
	1973	
Jan.	26	45.57
Mar.	28	43.37
Apr.	26	43.04
May	29	40.78
June	28	43.05
July	30	44.43
Aug.	27	47.04
Sept.	27	46.06

OXFORD COUNTY

444637070552301 (O 400) Union Water Power Co. Middle Dam, Lower Richardson Lake. Dug domestic water-table well in glacial till, diam 24 in. (61 cm), depth 15 ft (5 m), cased with concrete pipe to 15 ft (5 m). Lsd about 1,450 ft (442 m) above msl. MP top of casing 2.0 ft (0.6 m) above lsd. Highest water level, 0.2 ft (0.1 m) May 20, 1945, Apr. 30, 1961, Apr. 16, 1967; lowest, 12.2 ft (3.7 m) Oct. 9, 16, 23, 1966. Records available: 1944-73.

	1972		Jan.	21	6.2	June	3	2.2
Oct.	1	10.4		28	4.3		10	2.8
	8	10.8	Feb.	4	4.1		17	.8
	15	10.8		11	4.2		24	1.9
	22	11.2		18	4.7	July	1	.8
	29	11.0		25	6.0		8	2.0
Nov.	5	11.2	Mar.	4	5.5		15	3.5
	12	11.2		11	4.5		22	4.8
	19	10.5		18	1.0		29	6.7
	26	9.2		25	.7	Aug.	5	6.2
Dec.	3	6.9	Apr.	1	.7		12	7.0
	10	5.6		8	1.0		19	6.6
	17	5.1		15	2.0		26	7.3
	24	4.9		22	.9	Sept.	2	7.8
	31	5.8		29	.8		16	8.0
	1973		May	6	1.9		23	8.0
Jan.	7	5.4		13	3.1		30	8.0
	14	5.6		27	3.2			

Note.--Well not used for domestic water supply after August 12.

SOMERSET COUNTY

444219069545801 (Sm 1) J. Harrison Farrand. Mercer. Dug unused water-table well in sand, diam 60 in. (152 cm), depth 14 ft (4 m), cased with rock to 14 ft (4 m). Lsd about 270 ft (82 m) above msl. MP nail in top of horizontal timber at NE corner of well cover, 0.4 ft (0.1 m) above lsd. Highest water level, 3.75 ft (1.14 m) Apr. 13, 1960; lowest, estimated 14.1 ft (4.3 m) Nov. 30, 1952. Records available: 1942-73. Recording gage removed Nov. 23, 1972 and reinstalled Apr. 26, 1973.

	1972		Apr.	26	h4.88	Aug.	5	6.12
Oct.	5	7.33	May	22	h4.25		10	5.90
	10	6.35		29	h4.87		15	5.90
	15	5.92		31	5.31		20	6.14
	20	5.98	June	21	h5.25		25	6.47
	25	5.92		25	5.42		27	h6.65
	26	h5.80		30	5.15		31	6.82
	31	5.48	July	5	4.50	Sept.	5	7.02
Nov.	23	h4.82		10	5.26		10	7.07
Dec.	27	5.27		15	5.66		15	7.25
	1973			20	5.97		20	7.20
Jan.	26	4.79		24	h6.12		25	7.20
Feb.	26	5.34		25	6.19		27	h7.17
Mar.	28	4.44		31	6.36		30	6.75

Note.--Water levels when recorder was in operation are from recorder graph and are mean for the day except those with the symbol h, which are instantaneous measurements made manually.

WASHINGTON COUNTY

444240067283501 (W 1) Julian A. Johnson. Machias. Drilled artesian stock well in bedrock, diam 6 in. (15 cm), depth 54 ft (16 m), cased with steel. Lsd about 140 ft (43 m) above msl. MP top of casing at lsd. Highest water level, 5.29 ft (1.61 m) Apr. 16, 1961; lowest, 13.95 ft (4.25 m) Feb. 2, 1959. Records available: 1958-73 (discontinued).

	1972		Dec.	27	10.10	May	15	9.00
Oct.	14	9.65		1973			29	7.60
	27	10.50	Jan.	26	9.96	June	26	10.55
Nov.	15	9.40	Feb.	26	11.30	July	25	11.30
	27	8.30	Mar.	26	9.32	Aug.	27	12.00
Dec.	14	8.38	May	1	6.60			

WASHINGTON COUNTY--Continued

444955067000501 (W 2) Lubec Water District. Lubec. Driven unused artesian well in glacial sand and gravel, diam 2.5 in. (6.4 cm), depth 52 ft (16 m), cased with iron pipe 0-42 ft (0-13 m), screened 42-52 ft (13-16 m). Lsd about 50 ft (15 m) above msl. MP top of casing at lsd. Highest water level, 9.31 ft (2.84 m) June 14, 1960; lowest, 19.89 ft (6.06 m) Nov. 12, 1965. Records available: 1958-73.

	1972			1973		May	30	11.05
Oct.	28	17.91	Jan.	29	11.80	June	29	10.50
Nov.	28	17.44	Feb.	26	14.02	July	29	11.60
Dec.	31	16.20	Mar.	27	10.50	Aug.	31	e12.90
			Apr.	29	11.20	Sept.	30	14.20

e Water level estimated.

YORK COUNTY

434822070482501 (Y 1) James P. Small. Cornish. Dug unused water-table well in glacial outwash, diam 36 in. (91 cm), depth 24 ft (7 m), cased with brick to 24 ft (7 m). Lsd about 370 ft (113 m) above msl. MP mark chiseled on top of concrete well curb at lsd. Highest water level, 7.90 ft (2.41 m) Apr. 16, 1952; lowest, 18.40 ft (5.61 m) Nov. 14, 1948. Records available: 1943-73.

Mean water level for the day, from recorder graph.

	1972		Jan.	31	9.77	June	5	9.92
Oct.	5	15.95	Feb.	5	8.90		10	10.30
	10	16.06		10	9.43		15	10.79
	15	14.95		15	10.20		20	10.54
	20	14.75		20	11.02		25	h10.85
	25	15.01		25	h11.62		30	11.37
	31	15.48		28	11.92	July	5	9.35
Nov.	5	15.41	Mar.	5	12.16		10	9.22
	10	14.94		10	11.00		15	10.13
	15	13.37		15	8.70		20	11.03
	20	12.69		20	8.61		25	11.63
	25	10.25		25	h 9.01		31	12.23
	30	9.13		31	9.09	Aug.	5	10.98
Dec.	5	9.70	Apr.	5	8.49		10	11.15
	10	9.95		10	8.83		15	11.88
	15	10.32		15	9.26		20	12.25
	20	10.70		20	9.50		25	h12.84
	25	11.31		25	h10.14		31	13.50
	31	11.95		30	9.50	Sept.	5	14.03
	1973		May	5	9.39		10	14.43
Jan.	5	11.25		10	10.00		15	14.80
	10	11.27		15	10.16		20	15.15
	15	11.70		20	9.73		25	h15.22
	20	11.99		25	8.79		30	15.27
	25	9.10		31	9.52			

h Instantaneous measurement, made manually.

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